

1/4/05

Warm-up

① L-G

.0555, .07, .075, .75, .750

②

| x | y |
|---|----|
| 1 | 7 |
| 2 | 10 |
| 3 | 13 |
| 4 | 16 |
| 5 | 19 |
| 6 | 22 |
| 7 | 25 |

$$(3x+5)-1=y$$

④

| |
|----|
| 14 |
| 9 |
| 7 |
| 8 |
| 1 |

| |
|---|
| 9 |
| 9 |
| 9 |
| 1 |
| 8 |
| 0 |
| 7 |
| 5 |

③

| |
|---|
| 2 |
| 4 |
| 7 |

| |
|---|
| 2 |
| 3 |
| 1 |

| |
|---|
| 0 |
| 2 |
| 4 |
| 7 |

| |
|---|
| + |
| 7 |
| 0 |
| 4 |
| 1 |
| 0 |

| |
|---|
| 7 |
| 6 |
| 5 |
| 7 |

pick numbers from

both decks so they are
spread out.

1) divisor

2) dividend

3) equivalent decimals

4) 700

5) 60

6) 9

7) 30,000

8) 3,200

9) 50

$$\begin{array}{r}
 14 \\
 20 \overline{) 280} \\
 \underline{-40} \\
 60
 \end{array}$$

$$\begin{array}{r}
 11 \\
 10 \overline{) 60} \\
 \underline{-60} \\
 00
 \end{array}$$

$$\begin{array}{r}
 12 \\
 60 \overline{) 420} \\
 \underline{-420} \\
 0
 \end{array}$$

$$\begin{array}{r}
 13 \\
 80 \overline{) 160} \\
 \underline{-160} \\
 0
 \end{array}$$

$$\begin{array}{r}
 14 \\
 30 \overline{) 900} \\
 \underline{-900} \\
 60 \\
 \underline{-60} \\
 00
 \end{array}$$

$$\begin{array}{r}
 15 \\
 40 \overline{) 800} \\
 \underline{-800} \\
 000 \\
 \underline{-000} \\
 000
 \end{array}$$

$$\begin{array}{r}
 16 \\
 40 \overline{) 2400} \\
 \underline{-2400} \\
 6000 \\
 \underline{-6000} \\
 0000
 \end{array}$$

11

D
M x
S
O
O

$$\begin{array}{r} 50 \\ 17 \ 20 \overline{) 1,000} \\ \underline{100} \\ 0000 \\ + 0000 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ 23 \ 4 \overline{) 524} \\ \underline{88} \\ 024 \\ \underline{24} \\ 0 \end{array}$$

$$\begin{array}{r} 18 \ 2 \overline{) 4005} \\ \underline{4} \\ 284 \\ \underline{14} \\ 140 \\ \underline{140} \\ 0 \end{array}$$

$$\begin{array}{r} 24 \ 3 \overline{) 1620} \\ \underline{9} \\ 150 \\ \underline{120} \\ 300 \\ \underline{300} \\ 0 \end{array}$$

$$\begin{array}{r} 19 \ 4 \overline{) 172} \\ \underline{16} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

$$\begin{array}{r} 25 \ 8 \overline{) 3248} \\ \underline{32} \\ 040 \\ \underline{00} \\ 048 \\ \underline{48} \\ 0 \end{array}$$

$$\begin{array}{r} 25 \ 5 \overline{) 1485} \\ \underline{15} \\ 135 \\ \underline{135} \\ 0 \end{array}$$

$$\begin{array}{r} 24 \ 9 \overline{) 207} \\ \underline{18} \\ 27 \\ \underline{27} \\ 0 \end{array}$$

$$\begin{array}{r} 9 \\ 26 \ 16 \overline{) 144} \\ \underline{144} \\ 0 \end{array}$$

$$\begin{array}{r} 27 \ 32 \overline{) 864} \\ \underline{64} \\ 192 \\ \underline{192} \\ 0 \end{array}$$

$$\begin{array}{r} 22 \ 6 \overline{) 268} \\ \underline{12} \\ 148 \\ \underline{120} \\ 28 \end{array}$$

$$\begin{array}{r} 32 \\ \times 3 \\ \hline 96 \\ + 323 \\ \hline 1609 \\ \times 3 \\ \hline 4818 \\ + 1609 \\ \hline 17827 \\ \times 8 \\ \hline 14272 \\ + 17827 \\ \hline 144000 \end{array}$$

(28) 85
 $45 \overline{) 3,825}$
 $\underline{3,600}$
 $0,225$
 $\underline{0,225}$
 0000

(29) 15
 $91 \overline{) 1,305}$
 $\underline{1,815}$
 455
 $\underline{435}$
 000

3
 45
 $\times 7$
 $\hline 315$
 $\hline 315$
 $\hline 360$

(30) 0.8
 0.80
 0.800

(31) 0.25
 0.250
 0.2500

(32) 1.3
 1.30
 1.300

(33)
 2.60
 2.600
 2.6

91
 $\times 2$
 $\hline 182$
 $+ 91$
 $\hline 173$

45
 $\times 6$
 $\hline 270$
 $\hline 270$
 $\hline 270$
 $\hline 270$

100
 $\hline 100$

41
 $\times 5$
 $\hline 205$

Warm-up

$$\begin{array}{r} 1,543,048 \\ - 47,249 \\ \hline 1,245,849 \end{array}$$

$$\begin{array}{r} 327 \\ \times 24 \\ \hline 1308 \\ + 6540 \\ \hline 7848 \end{array}$$

$$\begin{array}{r} 01.0299 \\ 01.04 \\ 03.049 \\ 01.48 \\ 05.49 \end{array}$$

$$(x \cdot 2) - 2 = y$$

| x | y |
|----|----|
| 5 | 8 |
| 6 | 10 |
| 7 | 12 |
| 8 | 14 |
| 9 | 16 |
| 10 | 18 |

2,000

① You bring it up

$$\begin{aligned} 100 \div 5 &= 20 \\ 10 \div 5 &= 2 \\ 1 \div 5 &= 0.2 \end{aligned}$$

$$\begin{aligned} 400 \div 8 &= 50 \\ 40 \div 8 &= 5 \\ 4 \div 8 &= 0.5 \end{aligned}$$

$$\begin{aligned} 500 \div 2 &= 250 \\ 50 \div 2 &= 25 \\ 5 \div 2 &= 0.25 \end{aligned}$$

$$\begin{aligned} 300 \div 5 &= 60 \\ 30 \div 5 &= 6 \\ 3 \div 5 &= 0.6 \end{aligned}$$

$$\begin{aligned} 60 \div 4 &= 15 \\ 6 \div 4 &= 1.5 \\ 0.6 \div 4 &= 0.15 \end{aligned}$$

$$\begin{aligned} 1500 \div 6 &= 250 \\ 150 \div 6 &= 25 \\ 15 \div 6 &= 2.5 \end{aligned}$$

$$\begin{aligned} 400 \div 5 &= 80 \\ 40 \div 5 &= 8 \\ 4 \div 5 &= 0.8 \end{aligned}$$

$$\begin{aligned} 2,000 \div 8 &= 250 \\ 200 \div 8 &= 25 \\ 20 \div 8 &= 2.5 \end{aligned}$$

$$\begin{aligned} 1,000 \div 8 &= 125 \\ 100 \div 8 &= 12.5 \\ 10 \div 8 &= 1.25 \end{aligned}$$

20
100
100

W.131

$$\begin{array}{r} 150 \\ \div 6 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ 6 \overline{) 150} \\ \underline{12} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$$\begin{array}{r} 25 \\ 8 \overline{) 200} \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

$$\begin{array}{r} 33.2 \\ 6 \overline{) 200} \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 2 \end{array}$$

Warm-up

1/1/05

②

| | |
|------|---|
| 80 | |
| 480 | |
| -480 | ↓ |
| 000 | |
| 000 | |
| 000 | |

⑤

| | |
|-------|---|
| 20 | |
| 15300 | |
| -300 | ↓ |
| 000 | |
| 000 | |
| 000 | |

①

| | |
|-----|---|
| 48 | |
| -48 | ↓ |
| 0 | |

③

| | |
|--------|---|
| 243 | |
| 13,042 | |
| -978 | ↓ |
| 12,064 | |

- 4
- x 3
-
- 12
- + 4
- 16
- + 3
-
- 19
- 3
- x 3
-
- 9
- + 4
- 13
- x 3
-
- 39
- 3
- x 6
-
- 18
- + 4
-
- 22

$(3x + 4) \cdot 3 = y$

④

| In | Out |
|----|-----|
| x | y |
| 1 | 30 |
| 3 | 39 |
| 4 | 48 |
| 5 | 57 |

Warm-up

① //

Income

"
= Low income"

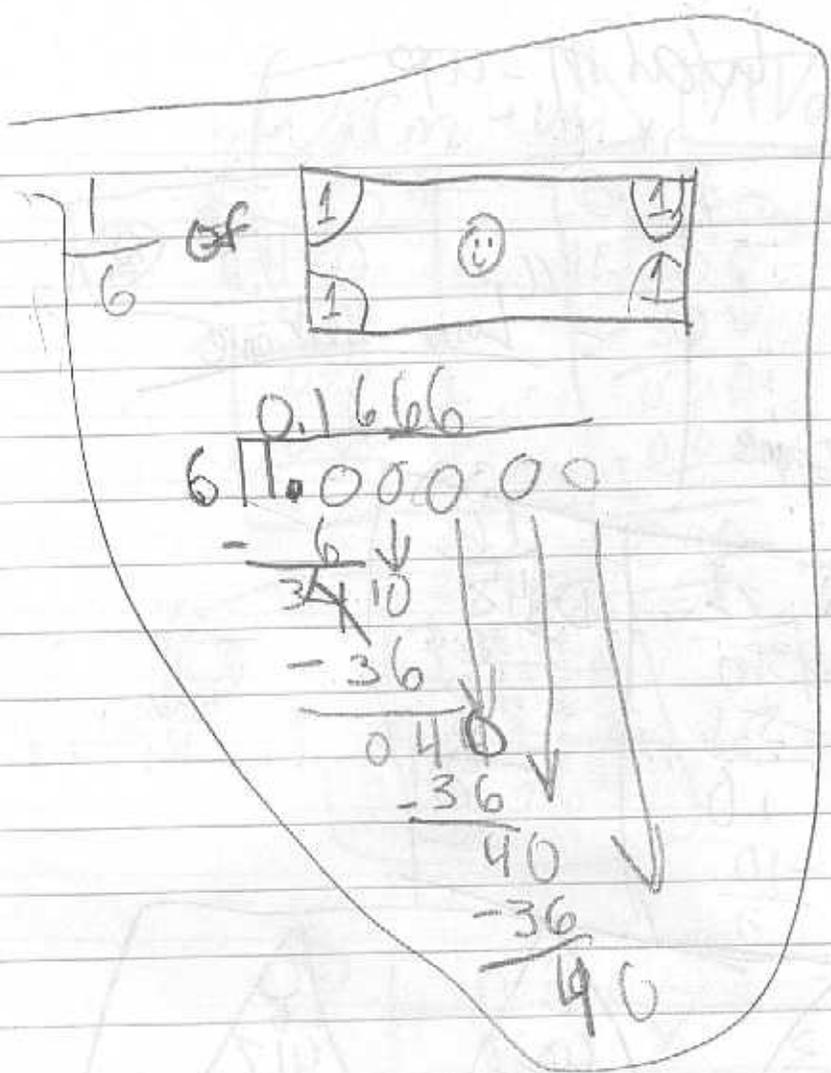
| | | |
|---|--|--|
| ② | $\begin{array}{r} 72 \\ 5 \overline{)360} \\ \underline{-356} \\ 10 \\ \underline{-10} \\ 0 \end{array}$ | $\begin{array}{r} 16 \\ 3 \overline{)48} \\ \underline{-36} \\ 12 \\ \underline{-12} \\ 0 \end{array}$ |
|---|--|--|

| | | | |
|---|---|---|---|
| ③ | $\begin{array}{r} A \\ 362 \\ \times 17 \\ \hline 2541 \\ +3630 \\ \hline 6171 \end{array}$ | $\begin{array}{r} B \\ 423 \\ \times 24 \\ \hline 1846 \\ +8460 \\ \hline 4306 \end{array}$ | $\begin{array}{r} C \\ 417 \\ \times 98 \\ \hline 3336 \\ +37530 \\ \hline 49866 \end{array}$ |
|---|---|---|---|

④

L-G

2.0/2, 2.120, 2.



1/18/65

Warm-up

(A)

$$\begin{array}{r}
 0.9675 \\
 64 \overline{) 58.0000} \\
 \underline{- 58} \\
 000 \\
 \underline{- 000} \\
 000 \\
 \underline{- 000} \\
 000
 \end{array}$$

(B)

$$\begin{array}{r}
 87.0000 \\
 8 \overline{) 70.0000} \\
 \underline{- 72} \\
 0000 \\
 \underline{- 0000} \\
 0000 \\
 \underline{- 0000} \\
 0000
 \end{array}$$

(C)

$$\begin{array}{r}
 10 \overline{) 25.0000} \\
 \underline{- 20} \\
 5000 \\
 \underline{- 50} \\
 0000 \\
 \underline{- 0000} \\
 0000
 \end{array}$$

A

$$\begin{array}{r}
 0.5 \\
 5 \overline{) 2.5} \\
 \underline{- 25} \\
 00
 \end{array}$$

$$\begin{array}{r}
 916 \\
 + 916 \\
 \hline
 1832
 \end{array}$$

$$\begin{array}{r}
 3265 \\
 \times 3 \\
 \hline
 9795
 \end{array}$$

$$\begin{array}{r}
 580 \\
 - 512 \\
 \hline
 68
 \end{array}$$

$$\begin{array}{r}
 364 \\
 \times 4 \\
 \hline
 1456
 \end{array}$$

$$\begin{array}{r}
 580 \\
 - 576 \\
 \hline
 4
 \end{array}$$

① I can tell remainder

| | |
|----|-----|
| 1 | 1 |
| 2 | 10 |
| 3 | 30 |
| 4 | 40 |
| 5 | 50 |
| 6 | 60 |
| 7 | 70 |
| 8 | 80 |
| 9 | 90 |
| 10 | 100 |

①

$$9 \overline{) 28} \begin{array}{r} 3 \\ 27 \\ \hline 1 \end{array}$$

I am confused

2

$$9 \overline{) 28} \begin{array}{r} 3 \\ 27 \\ \hline 1 \end{array}$$

??

??
min

min

50

$$\begin{array}{r} 50 \\ \times 38 \\ \hline 000 \\ 1500 \\ \hline \end{array}$$

think of the number closest to but still less than your number, then take it away from your number.

$$(5x + 1) \div 2 = y$$

$$2 \overline{) 25} \begin{array}{r} 12 \\ 22 \\ \hline 3 \\ -2 \\ \hline 1 \end{array}$$

$$2 \overline{) 625} \begin{array}{r} 312 \\ 624 \\ \hline 1 \\ -2 \\ \hline 05 \\ -4 \\ \hline 11 \end{array}$$

| x | y |
|----|-------|
| 1 | 3 |
| 10 | 25.5 |
| 2 | 5.5 |
| 20 | 50.5 |
| 5 | 13 |
| 50 | 625.5 |

Spiral binding edge

9/11/2011



Handwritten notes and diagrams on the right side of the page, including a large faint outline of a shape and various illegible scribbles and lines.

Handwritten notes and diagrams on the left side of the page, including a large faint outline of a shape and various illegible scribbles and lines.

Handwritten notes at the bottom right of the page, including the word "The" and other illegible text.

1/22/05

Warm-up

①

A

$$\begin{array}{r} 516 \\ 9 \overline{) 45} \\ \underline{-45} \\ 0 \end{array}$$

B

$$\begin{array}{r} 25 \\ 9 \overline{) 23} \\ \underline{-18} \\ 5 \end{array}$$

C

$$\begin{array}{r} 816 \\ 9 \overline{) 78} \\ \underline{-72} \\ 6 \end{array}$$

$$\begin{array}{r} 0.5 \\ 2 \overline{) 1.0000} \\ \underline{-1.0} \\ 0 \end{array}$$

②

$$240 \div 6 = 40$$

$$2,400 \div 6 = 400$$

$$24,000 \div 6 = 4,000$$

$$\begin{array}{r} 5 \\ 10 \overline{) 20.000} \\ \underline{-20} \\ 0 \end{array}$$

$$240,000 \div 6 = 40,000$$

(7x + 13) ÷ 2

| X | Y |
|---|----|
| 5 | 24 |
| 6 | 27 |
| 7 | 31 |
| 8 | 34 |
| 9 | |

③

$$\begin{array}{r} 0.24 \\ 5 \overline{) 1.215} \\ \underline{-1.0} \\ 21 \\ \underline{-20} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

$$\begin{array}{r} 0.75 \\ 4 \overline{) 3.0000} \\ \underline{-3.0} \\ 0 \end{array}$$

④

$$\frac{1}{2} = 0.5$$

$$\frac{20}{100} = 0.20$$

$$\frac{3}{4} = 75$$

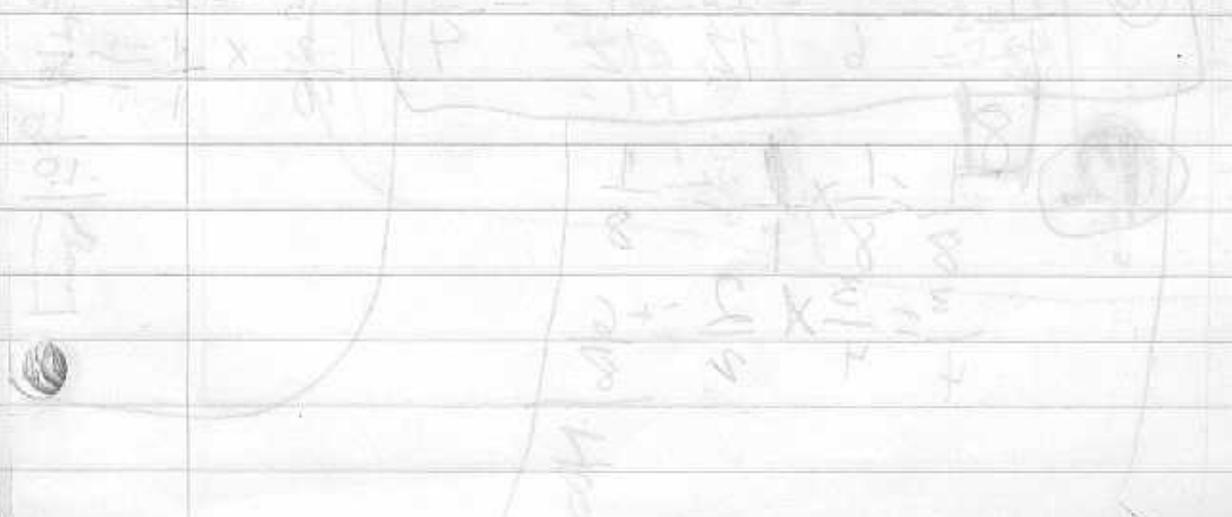
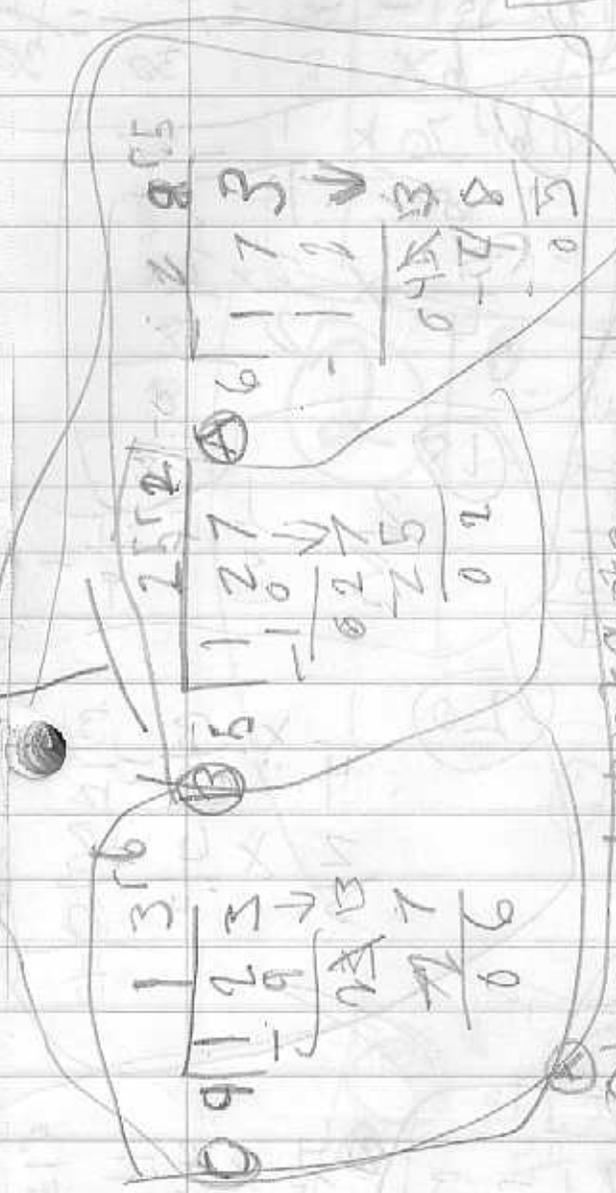
$$\begin{array}{r} 492 \\ +13 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 26 \\ +13 \\ \hline 69 \end{array}$$

$$\begin{array}{r} 347 \\ 2 \overline{) 694} \\ \underline{-694} \\ 0 \end{array}$$

$$\frac{15}{1,000} = 0.015$$

Wamm-AP



$$\frac{3}{4} - \frac{2}{8} = \frac{6-2}{8} = \frac{4}{8}$$

$$\textcircled{2} \frac{10}{5} = \frac{1}{5} \times \frac{2}{2} = \frac{2}{10}$$

$$\frac{1}{10} = \frac{1}{10} \times \frac{1}{1} = \frac{1}{10}$$

$$\textcircled{4} \frac{1}{3} = \frac{1}{3} \times \frac{3}{3} = \frac{3}{9}$$

$$\frac{2}{9} = \frac{2 \times 1}{9 \times 1} = \frac{2}{9}$$

$$\textcircled{10} \frac{1}{5} = \frac{1}{5} \times \frac{2}{2} = \frac{2}{10}$$

$$\frac{5}{5} = \frac{5 \times 1}{5 \times 1} = \frac{5}{5}$$

$$\frac{10}{10} = \frac{10 \times 1}{10 \times 1} = \frac{10}{10}$$

$$\textcircled{8} \frac{3}{4} - \frac{3}{8} = \frac{6-3}{8} = \frac{3}{8}$$

$$\textcircled{10} \frac{1}{2} - \frac{1}{6} = \frac{112-9}{12 \ 12} = \frac{3}{4}$$

$$\textcircled{12} \frac{1}{8} = \frac{1}{8} \times \frac{1}{1} = \frac{1}{8}$$

$$\frac{3}{4} = \frac{3}{4} \times \frac{2}{2} = \frac{6}{8}$$

$$\textcircled{14} \frac{6}{6} - \frac{3}{5} = \frac{30-18}{30} = \frac{12}{30}$$

$$\textcircled{16} \frac{7}{8} \times \frac{1}{1} = \frac{7}{8}$$

$$\frac{1}{4} \times \frac{2 \times 2}{2 \times 2} = \frac{2}{8}$$

$$\textcircled{18} \frac{2}{3} - \frac{1}{9} = \frac{2-1}{9} = \frac{1}{9}$$

$$\textcircled{20} \frac{1}{4} \times \frac{3}{3} = \frac{3}{12}$$

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$\frac{4}{5} \times \frac{2}{2} = \frac{8}{10}$$

$$\frac{2}{10} \times \frac{1}{1} = \frac{2}{10}$$

$$\frac{10}{10} = \frac{10}{10}$$

12

7/8

1/25/05

Army - KP

| | | |
|--|---|--|
| ① A $4 \overline{) 1.735}$ $\times 6$ <hr/> 10.410 | B $2 \overline{) 2.25}$ $\times .15$ <hr/> 1125 + 2250 <hr/> 3375 | C 0.035 $\times 17$ <hr/> 245 + 0350 <hr/> 0.595 |
|--|---|--|

2

| | |
|---|--|
| ② $6 \overline{) 371}$ $- 36 \downarrow$ <hr/> 11 $- 6$ <hr/> 5 | ③ $86 \overline{) 242}$ $- 24 \downarrow$ <hr/> 02 $- 0$ <hr/> 2 |
| ④ $9 \overline{) 26.75}$ $- 18 \downarrow$ <hr/> 054 $- 54$ <hr/> 5 | ⑤ $3 \overline{) 1.95}$ $- 0 \downarrow$ <hr/> 195 $- 18 \downarrow$ <hr/> 15 $- 15$ <hr/> 0 |

3

| | |
|---|---|
| ⑥ $2 \overline{) 0.975}$ $- 0.4 \downarrow$ <hr/> $- 14$ <hr/> $- 14$ <hr/> 10 $- 10$ <hr/> 0 | ⑦ $5 \overline{) 1.750}$ $- 15 \downarrow$ <hr/> $- 25$ <hr/> $- 25$ <hr/> 00 |
|---|---|

$$\textcircled{1} \quad \begin{array}{r} 160. \\ \hline 24 \overline{) 16.000} \\ \underline{0} \quad \downarrow \\ 160 \end{array}$$

$$\begin{array}{r} 3 \\ 24 \\ \times 9 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 24 \\ \times 7 \\ \hline \end{array}$$

1/27/05

Warm-up

105.3300

33 ↓ 6.000

-3 ↓

0 ↓ 1.800

- ↓ 1.500

- ↓

0 ↓ 4.000

- ↓ 1.000

- ↓

0 ↓ 6.000

600

586 ↓ 200

5 ↓ 500

- ↓ 300

0 ↓

02766

6 ↓ 1656

- ↓ 1000

- ↓ 1000

- ↓ 1000

0 ↓ 360

42.6 = 25

42.6 = 55000

-8 ↓

25 ↓

25 ↓

-14 ↓

30 ↓

20 ↓

\$1.25

+ \$1.75

+ \$5.25

\$10.55

④

$$\begin{array}{r} 8.7 \\ 3 \overline{) 24.500} \\ \underline{-24} \\ 05 \\ \underline{-3} \\ 21 \end{array}$$

$$\begin{array}{r} 0.68 \\ 25 \overline{) 17.000} \\ \underline{-15} \\ 200 \\ \underline{-200} \\ 0 \end{array}$$

$$\begin{array}{r} 6.74 \\ 4 \overline{) 37.00} \\ \underline{-24} \\ 130 \\ \underline{-128} \\ 20 \end{array}$$

$$\begin{array}{r} 3.45 \\ 4 \overline{) 13.80} \\ \underline{-12} \\ 180 \\ \underline{-160} \\ 20 \end{array}$$

$$\begin{array}{r} 19 \\ 6 \overline{) 115} \\ \underline{-60} \\ 55 \\ \underline{-54} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \\ 2 \\ 11.64 \\ 16.74 \\ 3.95 \\ + 23.17 \\ \hline 45.00 \end{array}$$

$$\begin{array}{r} 3 \\ 25 \\ \hline 150 \end{array}$$

$$\begin{array}{r} 4 \\ 258 \\ \hline 200 \end{array}$$

31/05

D

$$\begin{array}{r} 31 \\ 3 \overline{) 93} \\ \underline{- 90} \\ 3 \end{array}$$

$$\begin{array}{r} 2 \text{ m } - 40 \\ 7 \overline{) 165} \\ \underline{- 14} \\ 25 \end{array}$$

$$\begin{array}{r} 75 \\ 1 \overline{) 300} \\ \underline{- 225} \\ 75 \end{array}$$

$$\begin{array}{r} 0.415 \\ 24 \overline{) 10.000} \\ \underline{- 96} \\ 40 \\ \underline{- 36} \\ 40 \\ \underline{- 36} \\ 40 \\ \underline{- 36} \\ 40 \\ \underline{- 36} \\ 40 \end{array}$$

M x

S.

Ch ✓

B ↓

$$\begin{array}{r} 0.20 \\ 16 \overline{) 12.00000} \\ \underline{- 32} \\ 120 \\ \underline{- 120} \\ 0 \end{array}$$

$$\begin{array}{r} 0.17 \\ 100 \overline{) 17.000} \\ \underline{- 100} \\ 700 \\ \underline{- 700} \\ 0 \end{array}$$

$$\begin{array}{r} 24 \\ \times 5 \\ \hline 120 \end{array}$$

$$\begin{array}{r} 26 \\ + 14 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

10.000

$$\begin{array}{r} 39.5714200 \\ 1 \overline{) 277.000600000} \\ \underline{- 21} \\ 67 \\ \underline{- 63} \\ 40 \\ \underline{- 35} \\ 50 \\ \underline{- 49} \\ 10 \\ \underline{- 10} \\ 0 \end{array}$$

Warm-up

7/11/24

30/18/1

$$\begin{array}{r} 61.5 \\ 110.5 \\ \hline 172 \\ -1 \\ \hline 171 \end{array}$$

$$\begin{array}{r} 008.28 \\ 008.28 \\ \hline 16.13256 \\ -0 \\ \hline 172.2 \\ -172 \\ \hline 0 \\ 00 \\ - \\ \hline 173.8 \\ -11.8 \\ \hline 008 \end{array}$$

$$\begin{array}{r} 014.325 \\ 014.325 \\ \hline 7110.0249 \\ -0 \\ \hline 10 \\ -1 \\ \hline 9 \\ 02 \\ - \\ \hline 945 \end{array}$$

$$\begin{array}{r} 8 \\ 16 \\ \hline 24 \\ -11 \\ \hline 13 \end{array}$$

Warm up

7/1/29

$$\begin{array}{r} 0 \ 1 \ 5 \\ \underline{1 \ 0 \ 5} \\ -1 \ 0 \ 0 \end{array}$$

↓

$$\begin{array}{r} 0 \ 0 \ 8 \ 2 \ 8 \\ \underline{0 \ 1 \ 3 \ 2 \ 5 \ 6} \\ -1 \ 2 \ 2 \ 4 \ 5 \ 2 \\ \underline{0 \ 0 \ 3 \ 2 \ 1 \ 6} \\ -1 \ 2 \ 2 \ 4 \ 5 \ 2 \\ \underline{0 \ 0 \ 0 \ 0 \ 0 \ 0} \end{array}$$

$$\begin{array}{r} 0 \ 1 \ 4 \ 3 \ 2 \\ \underline{0 \ 1 \ 0 \ 0 \ 2 \ 4 \ 9} \\ -1 \ 0 \ 0 \ 0 \ 0 \ 0 \end{array}$$

↓

$$\begin{array}{r} 1 \ 2 \ 8 \\ \underline{1 \ 2 \ 6} \\ 0 \ 0 \ 2 \end{array}$$

2/3/06

Warm-up

①

| x | y |
|----|----|
| 1 | 5 |
| 2 | 9 |
| 3 | 13 |
| 5 | 21 |
| 9 | 37 |
| 10 | 41 |

$(4x+3)-2=y$

$$\begin{array}{r} 918 \\ +138 \\ \hline 1049 \\ +139 \\ \hline 1173 \\ +133 \\ \hline 1326 \\ \times 3 \\ \hline 39 \\ +13 \\ \hline 65 \\ +136 \\ \hline 787 \\ +137 \\ \hline 91 \end{array}$$

②

$$9 \overline{) 273.06000}$$

$$\begin{array}{r} 30.333 \\ -27 \downarrow \downarrow \\ \hline 30 \\ -27 \downarrow \\ \hline 30 \end{array}$$

③

$$13 \overline{) 1731.0000}$$

$$\begin{array}{r} 132 \\ -13 \downarrow \\ \hline 43 \\ -39 \downarrow \\ \hline 41 \\ -39 \downarrow \\ \hline 21 \end{array}$$

④

$$\begin{array}{r} 1731 \\ \times 12 \\ \hline 3462 \\ +17310 \\ \hline 20772 \end{array}$$

Warm-up
2/5/05
Mardi Gras

① Tell me what a factor

① A factor is a number that can be multiplied to get another #
② You have to have factors to have multiplication
③ A factor is something that is used to create something else



$$\begin{array}{r} 28 \\ + 28 \\ \hline 56 \\ \hline 280 \end{array}$$

$$\begin{array}{r} 24 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 24 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 24 \\ \times 7 \\ \hline 168 \end{array}$$

$$\begin{array}{r} 2 \\ 24 \\ \times 6 \\ \hline 144 \end{array}$$

$$\begin{array}{r} 4 \\ 28 \\ \times 5 \\ \hline 140 \end{array}$$

1975

Warm-up
2/9/05

| | | |
|--|--|---|
| <p>(A) $16 \overline{) 6.6600}$</p> $\begin{array}{r} 24 \overline{) 16.000} \\ -144 \downarrow \\ \hline 0160 \\ -144 \\ \hline \end{array}$ | <p>(B) $0.75 \overline{) 3.00}$</p> $\begin{array}{r} 4 \overline{) 12.5} \\ 28 \overline{) 100.0} \\ -56 \downarrow \\ \hline 140 \\ -140 \\ \hline \end{array}$ | <p>(C) $0.1 \overline{) 1.60}$</p> |
|--|--|---|

| | | |
|---|--|--|
| <p>(A) $1 \overline{) 3.25}$</p> $\begin{array}{r} 3 \overline{) 66.25} \end{array}$ | <p>(B) $0.3 \overline{) 0.9}$</p> $\begin{array}{r} 3 \overline{) 0.26} \\ 10 \overline{) 130} \\ 100 \overline{) 156} \end{array}$ | <p>(C) $1.32 \overline{) 1.66}$</p> $\begin{array}{r} 0.05 \overline{) 660} \\ + 0000 \\ \hline 0660 \end{array}$ |
|---|--|--|

| | |
|---|---|
| <p>(D) $8 \overline{) 8,323}$</p> $\begin{array}{r} 10 \overline{) 82,094} \\ - 8,323 \\ \hline \end{array}$ | <p>(E) $17,243 \overline{) 129}$</p> $\begin{array}{r} 29,765 \\ + 29,765 \\ \hline 17,72,834 \end{array}$ |
|---|---|

LEM

3

x x x
x x x
x x x
x x x
x x x

5

0 0 0 0 0
0 0 0 0 0
0 0 0 0 0

LEM

2

x x
x x
x x
x x
x x
x x

7

0 0 0 0 0 0 0
0 0 0 0 0 0 0

④ 4 8

x x x x - 0 0 0 0 0 0 0 0
x x x x - 8
8

③ 4

x x x x
x x x x - 0 0 0 0
x x x x - 0 0 0 0
x x x x
x x x x

5

⑤ 3

x x x
x x x
x x x
x x x
17

4

⑥

| | | |
|----------|----------|-------------|
| <u>2</u> | <u>3</u> | <u>6</u> |
| x x | 0 0 0 | 0 0 0 0 0 0 |
| x x | 0 0 0 | 6 |
| x x | 6 | |
| 6 | | |

| 2 | 3 | 9 |
|----|-----|----------|
| xx | 000 | □□□□□□□□ |
| xx | 000 | □□□□□□□□ |
| xx | 000 | 18 |
| xx | 100 | |
| xx | 000 | |
| xx | 000 | |
| xx | 161 | |
| 18 | | |

① 4
4, 8, 12, 16, 20, 24

② 5
5, 10, 15, 20, 25, 30

③ 2 3
2, 4, 6 3, 6

③ 6
6, 12, 18, 24, 30, 36

④ 3 7
3, 6, 9 7, 14, 21
12, 15, 18, 21

④ 8
8, 16, 24, 32, 40, 48

⑤

⑤ 9
9, 18, 27, 36, 45, 54

⑥

Warm up
2/10/0

①

| | | |
|---|---|--|
| $\begin{array}{r} 37 \\ 21 \\ \hline \end{array}$ | $\begin{array}{r} 28 \\ 40 \\ \hline \end{array}$ | $\begin{array}{r} 510 \\ 10 \\ \hline \end{array}$ |
|---|---|--|

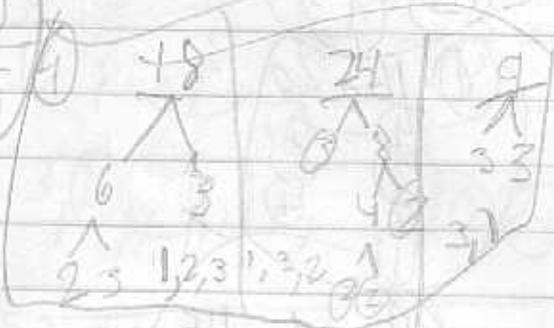
②

$$\begin{array}{r} 23.45 \\ \times 3.5 \\ \hline 117.25 \\ + 703.50 \\ \hline 82.075 \end{array}$$

③

$$\begin{array}{r} 21 \\ + 35 \\ \hline 56 \end{array}$$

$n = 56$



⑥ 32, 84, 12, 6

⑦ 110, 10, 25, 5, 20

⑧ 42, 15, 6, 7

⑩ 63, 1, 7, 9

⑫

| | |
|---|----|
| 6 | 14 |
| 2 | 7 |
| 3 | 0 |
| 0 | 2 |

⑬

| | |
|---|----|
| 9 | 21 |
| 7 | 21 |
| 0 | 1 |
| 2 | 2 |
| | 4 |

⑭

| | |
|----|----|
| 30 | 45 |
| 1 | 5 |
| 5 | |

⑮

| | |
|----|----|
| 13 | 14 |
| 1 | 1 |
| 22 | 4 |
| 24 | 2 |

16
21
12

16
12



$$\frac{20}{1} \cdot \frac{2}{4} \cdot \frac{5}{10} \cdot \frac{20}{20}$$

$$\frac{28}{1, 2, 4, 7, 14, 28}$$

$$\frac{30}{1, 3, 5, 15}$$

$$\frac{31}{1, 31}$$

$$\frac{39}{1, 2, 5, 10, 25, 50}$$

$$\frac{21}{1} \cdot \frac{15}{3} \cdot \frac{7}{7}$$

$$\frac{39}{1} \cdot \frac{13}{13} \cdot \frac{26}{26}$$

$$\frac{13}{13} \cdot \frac{13}{13}$$

$$\frac{16}{4} \cdot \frac{20}{5}$$

$$\frac{26}{13} \cdot \frac{45}{9}$$

$$\frac{8}{4} \cdot \frac{16}{8} \cdot \frac{20}{5}$$

$$\frac{12}{3} \cdot \frac{21}{7}$$

$$\frac{48}{12} \cdot \frac{18}{9} \cdot \frac{95}{5}$$

$$\frac{9}{3} \cdot \frac{15}{5}$$

$$\frac{16}{8} \cdot \frac{24}{8}$$

$$\frac{6}{3} \cdot \frac{30}{2} \cdot \frac{60}{2}$$

$$\frac{12}{4} \cdot \frac{28}{7}$$

$$\frac{21}{7} \cdot \frac{56}{8}$$

$$\frac{18}{9} \cdot \frac{30}{6} \cdot \frac{10}{5} \cdot \frac{15}{3}$$

Composit

10

① Circle the primes
(3), (17), (21), (22), (39)

② Circle the squares
(3), (9), (12), (14), (16), (24), (25)

③ $(17+4) - 12 + 6 = 9$
P = People

④ Circle the C's
(18), (13), (15), (21), (17), (3), (10), (25), (64)
(24)

Prime: a prime number is a number that's only factors are 1 and itself.

(n = the number that is prime). 11, 13, 15, 17

square: a square number is a number that can be divid equly in two parts
Example $5 \times 5 = 25$



composit: a composit is a number that

Quick Review

$$\textcircled{1} 10 \times 1 = 10$$

$$\textcircled{2} 10 \times 10 = 100$$

$$\textcircled{3} 10 \times 10 \times 10 = 1000$$

$$\textcircled{4} 10 \times 10 \times 10 \times 10 = 10,000$$

$$\textcircled{5} 10 \times 10 \times 10 \times 10 \times 10 = 100,000$$

Square number: a square number is a number that is the product of a number and its self.

Exponent: shows how many times a number is used as a factor.

Base number

$$= (5 \times 5) \times 6 = 5^2 \times 6 =$$

$\frac{5}{6}$

$$5 \times 5 = 5^2$$

$$55 \times 55 \times 55 = 55^3$$

$$55 \times 55 \times 55 \times 55 = 55^4$$

$$35 \times 35 = 35^2$$

$$100 = 10 \times 10 = 10^2$$

Product Factor Factor Base Exponent

Check

- ② $100 = 10^2 = 10 \times 10$
- ③ $100,000 = 10^5 = 10 \times 10 \times 10 \times 10 \times 10$
- ④ $10,000 = 10^4 = 10 \times 10 \times 10 \times 10$
- ⑤ $1,000,000 = 10^6 = 10 \times 10 \times 10 \times 10 \times 10 \times 10$
- ⑥ $10,000,000 = 10^7 = 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$
- ⑦ $10^2 = 100$
- ⑧ $10^4 = 10,000$
- ⑨ $10^1 = 10$
- ⑩ $10^5 = 100,000$
- ⑪ $10^3 = 1,000$

Practice

- ⑫ $1,000 = 10^3 = 10 \times 10 \times 10$
- ⑬ $100,000,000 = 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$
- ⑭ $1000,000,000 = 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$
- ⑮ $10 = 10^1 = 10$
- ⑯ $10^6 = 1,000,000$
- ⑰ $10^7 = 10,000,000$
- ⑱ $10^8 = 100,000,000$
- ⑲ $10^9 = 1,000,000,000$
- ⑳ $1,000 = 10^3$
- ㉑ $10 \times 10 \times 10 = 10^3$
- ㉒ $10^4 = 10,000$
- ㉓ $10 \times 10 \times 10 = 10^3$
- ㉔ $10 \times 10 \times 10 \times 10 = 10^4$
- ㉕ $10^3 = 100,000$
- ㉖ $1,000 > 10^2$
- ㉗ $10 \times 10 \times 10 = 10^3$
- ㉘ $10^4 < 10^7$
- ㉙ $10^4 < 100,000$
- ㉚ $10 \times 10 > 10^1$
- ㉛ $10^4 > 10^3$
- ㉜ $10 \times 10 \times 10 \times 10 = 10^4$
- ㉝ $10^3 = 100,000$
- ㉞ $10 \times 10 = 10^2$

$$\begin{array}{r}
 26 \quad 1,000 > 10^2 & \leftarrow 26.50 \\
 & + 3.55 \\
 & \hline
 & 30.05 \\
 & + 4.36 \\
 & \hline
 & 34.41 \\
 & + 5.98 \\
 & \hline
 & 40.39
 \end{array}$$

yo!

yet

Warm-up
2/1/105

① $8 \times 8 \times 5 \times 8 = 8^3$

② $10,000 = 10^4$

③ $5 \times 5 \times 5 \times 5 \times 5 = 5^5$

④ $(7 \times 7) \times 7 = 7^3$

49×7

② Equal factors of:

① $64 = 8 \times 8$ $81 = 9 \times 9$

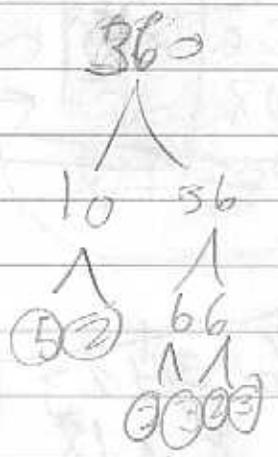
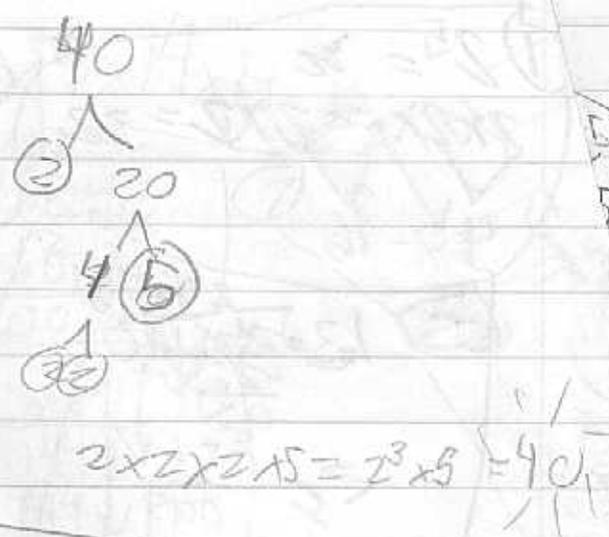
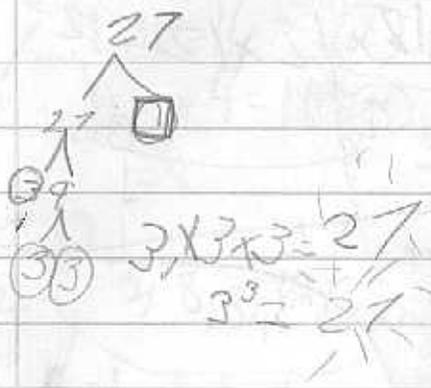
② $9^4 = 9 \times 9 \times 9 \times 9$

③ $6^3 = 6 \times 6 \times 6$ $49 = 7 \times 7$

Label this equation

$81 = 9 \times 9 = 9^2$

Product Factors Exponent



$2 \times 2 \times 2 \times 3 \times 3 \times 5 = 2^3 \times 3^2 \times 5 =$

15.8

$$\begin{array}{r} 2 \\ \times 19 \\ \hline 18 \\ 38 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 18 \\ \times 5 \\ \hline 90 \\ 180 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

11)

① $2^5 = 32$
 $2 \times 2 \times 2 \times 2 \times 2 = 32$

② $12 \times 12 \times 12 = 12^3$
 Base Exponent

$$\begin{array}{r} 65 \\ -13 \\ \hline 52 \\ \times 12 \\ \hline 104 \\ 650 \\ \hline 616 \end{array}$$

③ $13 \overline{) 240761}$

$$\begin{array}{r} 18520 \\ 13 \overline{) 240761} \\ \underline{26} \\ 80 \\ \underline{78} \\ 26 \\ \underline{25} \\ 11 \\ \underline{10} \\ 1 \\ \underline{1} \\ 0 \end{array}$$

④ $24 \overline{) 0088312}$

$$\begin{array}{r} 3684 \\ 24 \overline{) 0088312} \\ \underline{72} \\ 63 \\ \underline{60} \\ 31 \\ \underline{24} \\ 71 \\ \underline{72} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

5

$$\begin{array}{r} 13 \\ \times 8 \\ \hline 104 \end{array}$$

⑤ $\frac{1}{10}, \frac{1}{8}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$

⑥ 3423×18

$$\begin{array}{r} 61614 \\ 3423 \\ \times 18 \\ \hline 27384 \\ + 34230 \\ \hline 61614 \end{array}$$

⑦ 36×14

$$\begin{array}{r} 504 \\ 36 \\ \times 14 \\ \hline 144 \\ + 360 \\ \hline 504 \end{array}$$

⑧ 43×78

$$\begin{array}{r} 3354 \\ 43 \\ \times 78 \\ \hline 3444 \\ + 3010 \\ \hline 3354 \end{array}$$

⑨ $00 = 010$

⑩ 30×14

$$\begin{array}{r} 420 \\ 30 \\ \times 14 \\ \hline 120 \\ + 420 \\ \hline 420 \end{array}$$

$$\begin{array}{r} 13 \\ \times 3 \\ \hline 39 \\ 130 \\ \hline 390 \end{array}$$

⑪

Make-up and solve Palike

⑫ $13 \times 12 = 156$

$$\begin{array}{r} 156 \\ 13 \\ \times 12 \\ \hline 26 \\ + 156 \\ \hline 156 \end{array}$$

~~5012~~

① $4^2 = 16$
 $4 \times 4 = 16$

② $14 \times 14 \times 14 \times 14 = 14^4$

③ 02.003

$\begin{array}{r} 24 \\ \times 8 \\ \hline 192 \end{array}$

$\begin{array}{r} 34 \\ \times 24 \\ \hline 136 \\ 68 \\ \hline 816 \end{array}$

$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \end{array}$

⑤ $1-5$

$\frac{1}{2}, \frac{1}{8}, \frac{1}{32}, \frac{1}{64}, \frac{1}{1000}$

⑥ $34 \overline{) 68.162}$

$\underline{-68} \quad 102$

$\underline{-100} \quad 20$

$\underline{-20} \quad 00$

$\underline{-00} \quad 000$

⑦ $5 \overline{) 10758075}$

$\underline{-10} \quad 75$

$\underline{-75} \quad 80$

$\underline{-80} \quad 75$

$\underline{-75} \quad 00$

$\underline{-00} \quad 00$

$\underline{-00} \quad 00$

$\underline{-00} \quad 00$

⑧ $1, 5, 6, 2, 9$

$\times \quad \times$

$\underline{109,403}$

$+312,580$

$\hline 4,21,983$

⑨ $24 \overline{) 1444}$

$\underline{-144} \quad 0$

$\underline{-00} \quad 4$

$\underline{-00} \quad 4$

$\underline{-00} \quad 0$

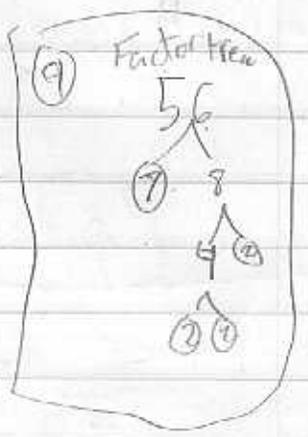
⑩ $4 \overline{) 28}$

$\underline{-8} \quad 0$

$\underline{-0} \quad 0$

$\underline{-0} \quad 0$

$\underline{-0} \quad 0$



$\begin{array}{r} 34 \\ +34 \\ \hline 68 \end{array}$

$\begin{array}{r} 1680 \\ +34 \\ \hline 1714 \end{array}$

$\begin{array}{r} 102 \\ +34 \\ \hline 136 \end{array}$

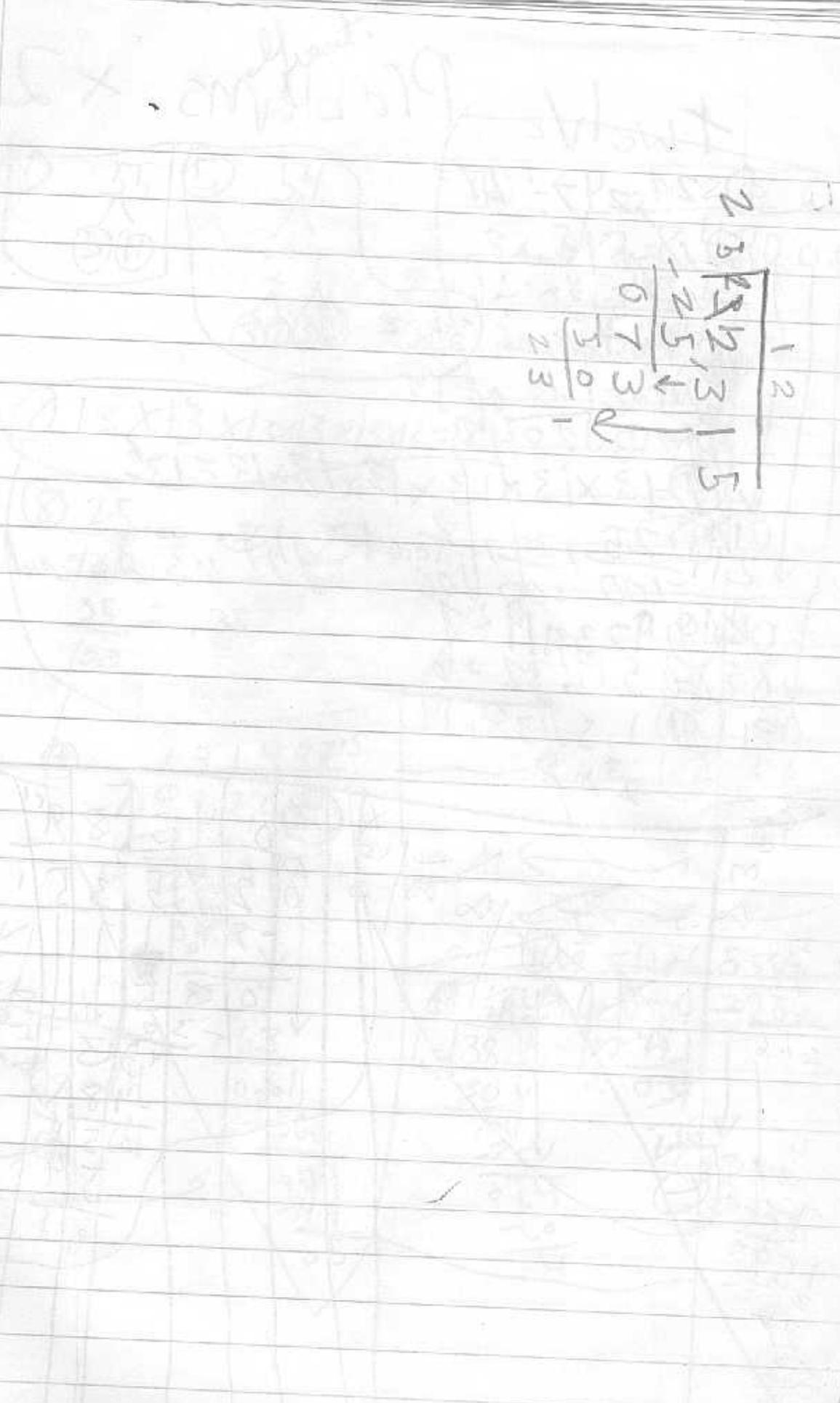
$\begin{array}{r} 25 \\ \overline{) 250} \\ \underline{-25} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \end{array}$

$\begin{array}{r} 25 \\ \overline{) 250} \\ \underline{-25} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \end{array}$

$\begin{array}{r} 25 \\ \overline{) 250} \\ \underline{-25} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \end{array}$

$\begin{array}{r} 25 \\ \overline{) 250} \\ \underline{-25} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \\ \underline{-0} \quad 0 \end{array}$

$$\begin{array}{r}
 12 \\
 \hline
 2 \overline{) 24} \\
 \underline{- 4} \\
 20 \\
 \underline{- 4} \\
 16 \\
 \underline{- 4} \\
 12 \\
 \underline{- 4} \\
 8 \\
 \underline{- 4} \\
 4 \\
 \underline{- 4} \\
 0
 \end{array}$$



twelve Problems x 2

① $24,247 \div 27 =$

② $63,218 \div 8 =$

③ $275,35 \div 6 =$

④ Factors of 35

⑤ Factors of 54

⑥ $2.3 \div 28.42 =$

⑦ $13 \times 13 \times 13 \times 13 \times 13 \times 13 = 13^6$

⑧ $\frac{25}{100}, \frac{35}{100}, \frac{7}{100}$ Right as decimal

⑨ $923914 \div 7 =$

⑩ $514,32 \div 6 =$

⑪ $1.5 \sqrt{38.14} =$

⑫ $2^3 \times 8 =$

Handwritten calculations and a grid:

① $210 \times 8 = 1680$

② $216 \times 8 = 1728$

③ $27 \times 8 = 216$

④ $27 \times 8 = 216$

⑤ $27 \times 8 = 216$

⑥ $27 \times 8 = 216$

⑦ $27 \times 8 = 216$

⑧ $27 \times 8 = 216$

⑨ $27 \times 8 = 216$

⑩ $27 \times 8 = 216$

⑪ $27 \times 8 = 216$

⑫ $27 \times 8 = 216$

⑬ $27 \times 8 = 216$

⑭ $27 \times 8 = 216$

⑮ $27 \times 8 = 216$

⑯ $27 \times 8 = 216$

⑰ $27 \times 8 = 216$

⑱ $27 \times 8 = 216$

⑲ $27 \times 8 = 216$

⑳ $27 \times 8 = 216$

㉑ $27 \times 8 = 216$

㉒ $27 \times 8 = 216$

㉓ $27 \times 8 = 216$

㉔ $27 \times 8 = 216$

㉕ $27 \times 8 = 216$

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㉚ $27 \times 8 = 216$

㉛ $27 \times 8 = 216$

㉜ $27 \times 8 = 216$

㉝ $27 \times 8 = 216$

㉞ $27 \times 8 = 216$

㉟ $27 \times 8 = 216$

㊱ $27 \times 8 = 216$

㊲ $27 \times 8 = 216$

㊳ $27 \times 8 = 216$

㊴ $27 \times 8 = 216$

㊵ $27 \times 8 = 216$

㊶ $27 \times 8 = 216$

㊷ $27 \times 8 = 216$

㊸ $27 \times 8 = 216$

㊹ $27 \times 8 = 216$

㊺ $27 \times 8 = 216$

㊻ $27 \times 8 = 216$

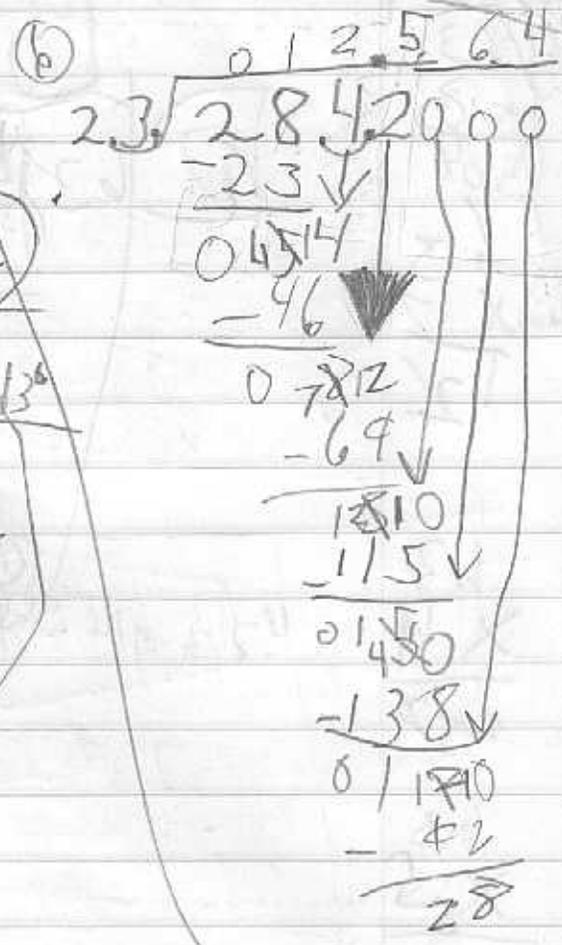
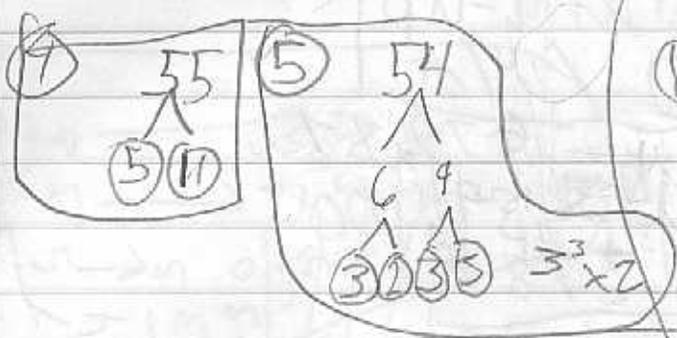
㊼ $27 \times 8 = 216$

㊽ $27 \times 8 = 216$

㊾ $27 \times 8 = 216$

㊿ $27 \times 8 = 216$

Heart

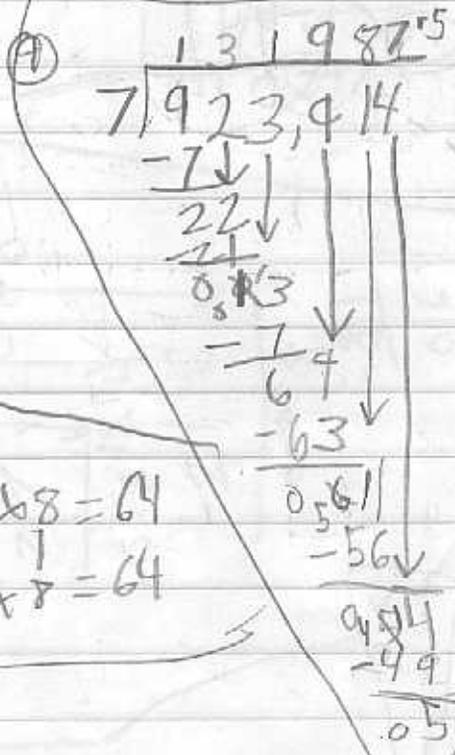


$$\begin{array}{r} 23 \\ \times 2 \\ \hline 46 \end{array}$$

⑦ $13 \times 13 \times 13 \times 13 \times 13 \times 13 = 13^6$

⑧ $\frac{25}{100} = 0.25$ $\frac{7}{100} = 0.07$
 $\frac{35}{100} = 0.35$

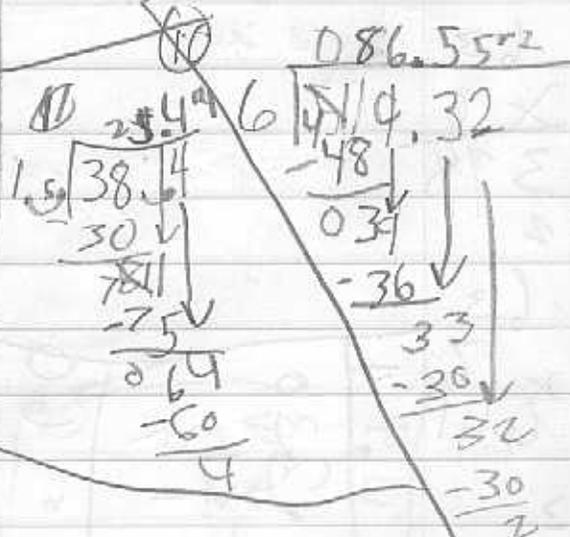
$$\begin{array}{r} 23 \\ \times 3 \\ \hline 69 \end{array}$$



$$\begin{array}{r} 23 \\ \times 4 \\ \hline 92 \end{array}$$

⑨ $2^3 \times 8 = 64$
 $8 \times 8 = 64$

$$\begin{array}{r} 23 \\ \times 6 \\ \hline 138 \\ \times 2 \\ \hline 276 \end{array}$$



$$\begin{array}{r} 2 \\ 63 \\ \times 8 \\ \hline 504 \end{array}$$

$$\begin{array}{r} 63 \\ \times 4 \\ \hline 252 \end{array}$$

$$\begin{array}{r} 63 \\ \times 5 \\ \hline 315 \end{array}$$

$$\begin{array}{r} 63 \\ \times 6 \\ \hline 378 \end{array}$$

$$\begin{array}{r} 63 \\ \times 7 \\ \hline 441 \end{array}$$

$$\begin{array}{r} 2 \\ 13 \\ \times 9 \\ \hline 117 \end{array}$$

W, M - up
1/4/02

$$\begin{array}{r} 63 \overline{) 423900} \\ \underline{378} \\ 459 \\ \underline{441} \\ 018 \\ \underline{126} \\ 540 \\ \underline{504} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

$$\begin{array}{r} 45816 \\ \underline{441} \\ 019 \end{array}$$

| | | | |
|---|---|---|---|
| 4 | 0 | 0 | 2 |
| 0 | 3 | 0 | 0 |
| 1 | 4 | 3 | 0 |
| 3 | 1 | 3 | 0 |

D ÷

M ×

S -

C ✓

B ↓

$$\begin{array}{r} 63 \overline{) 3900} \\ \underline{378} \\ 120 \\ \underline{117} \\ 3 \\ \underline{3} \\ 0 \end{array}$$

①

$$\begin{array}{r}
 2 \ 7 \ 2 \ 1 \\
 -2 \ 9 \ 2 \ 0 \\
 \hline
 0 \ 2 \ 1 \ 2 \\
 -2 \ 1 \ 6 \ 7 \\
 \hline
 0 \ 0 \ 8 \ 1 \\
 \hline
 0 \ 0 \ 6
 \end{array}$$

②

$$\begin{array}{r}
 0 \ 7 \ 9 \ 0 \ 6 \\
 8 \ 5 \ 13 \ 2 \ 8 \\
 -5 \ 6 \ 7 \ 2 \ 8 \\
 \hline
 0 \ -7 \ 0 \ 4 \ 0 \\
 -7 \ 0 \ 4 \ -4 \ 8 \\
 \hline
 0 \ 0 \ 0 \ 0 \ 0
 \end{array}$$

④ 5 5 ⑤ 5 4 ⑥ 5 4

⑦ 5 ⑧ 11 ⑨ 6 9

⑩ 2 3 3 3

③

$$\begin{array}{r}
 0 \ 4 \ 5 \ 8 \\
 2 \ 7 \ 5 \ 5 \\
 -2 \ 4 \ 5 \ 8 \\
 \hline
 0 \ 3 \ 0 \ 13 \\
 -3 \ 0 \ 4 \ 8 \\
 \hline
 0 \ 3 \ 5 \ 4 \\
 \hline
 0 \ 0 \ 1
 \end{array}$$

Note to Self:
I think long division is usually boring but sometimes fun.
It can be

I must remember to line up my numbers and be neat to get the right answer.

Big one

$$\frac{2}{10} \div \frac{2}{2} = \frac{1}{5}$$

$$\frac{4}{10} \div \frac{2}{2} = \frac{2}{5}$$

$$\frac{6}{10} \div \frac{2}{2} = \frac{3}{5}$$

$$\frac{2}{10} = \frac{1}{5}$$

$$\frac{4}{10} = \frac{2}{5}$$

$$\frac{6}{10} = \frac{3}{5}$$

Examples

$$\frac{23}{100} = 0.23$$

$$\frac{55}{100} = 0.55$$

$$\frac{78}{100} = 0.78$$

Borok rule!

$$\frac{2}{6} \frac{2}{9}$$

$$\frac{23}{4} \times 92$$

$$\frac{23}{4} \times 16$$

$$\frac{25}{100} = 0.25$$

$$\frac{35}{100} = 0.35$$

$$\frac{7}{100} = 0.07$$

$$8^3 \times 8 = 64$$

$$9^2 \times 9 = 64$$

$$\begin{array}{r} 23 \\ \times 13 \\ \hline 69 \\ 46 \\ \hline 299 \end{array}$$

$$\begin{array}{r} 64 \\ \times 12 \\ \hline 128 \\ 64 \\ \hline 768 \end{array}$$

$$\begin{array}{r} 64 \\ \times 12 \\ \hline 128 \\ 64 \\ \hline 768 \end{array}$$

$$\begin{array}{r} 13198705 \\ \times 4 \\ \hline 527948020 \end{array}$$

$$\begin{array}{r} 13198705 \\ \times 4 \\ \hline 527948020 \end{array}$$

$$\begin{array}{r} 1538 \\ \times 4 \\ \hline 61552 \end{array}$$

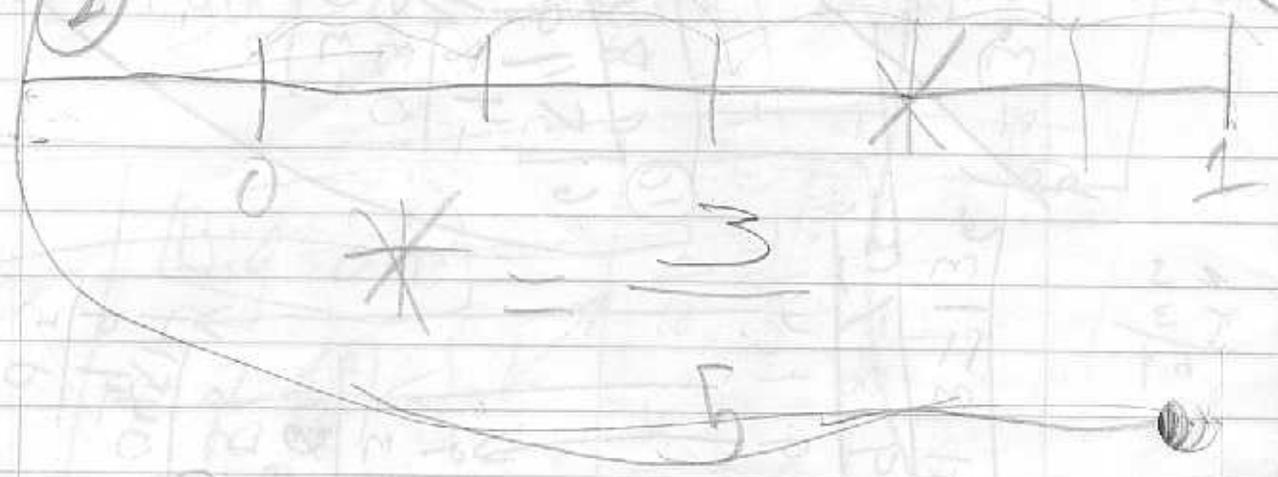
$$\begin{array}{r} 25 \\ \times 13 \\ \hline 75 \\ 250 \\ \hline 325 \end{array}$$

$$\begin{array}{r} 1538 \\ \times 4 \\ \hline 61552 \end{array}$$



$$\frac{4}{5}$$

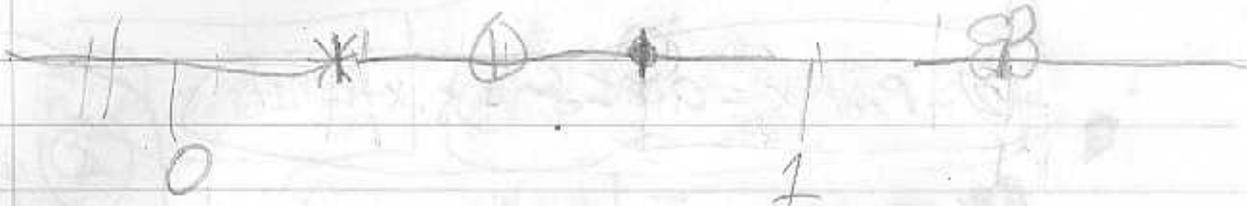
②



③



$$\square = \frac{1}{10}$$



$$\frac{3}{4} = \bullet$$

$$\frac{1}{4} = *$$

$$\frac{2}{4} = 0$$

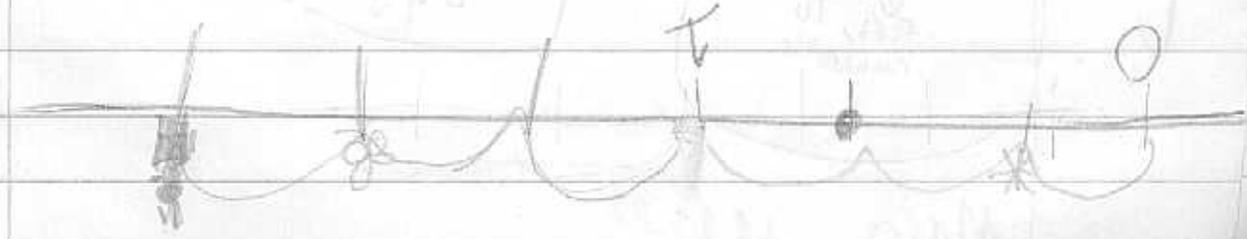
$$\frac{5}{4} \text{ or } 1\frac{1}{4} = \circ$$

$$\frac{2}{5} = \blacksquare$$

$$\frac{3}{5} = \circ$$

$$\frac{1}{5} = *$$

$$\frac{4}{5} = \bullet$$



② Point x = $0.6 = \frac{6}{10} =$ six tenths

Example 1

$$\begin{array}{r} 2 \overline{) 4} \\ 5 \overline{) 2.00} \end{array}$$

$$\begin{array}{r} 3 \overline{) 0.6} \\ 5 \overline{) 3.00} \\ 4 \overline{) 4.00} \\ 9 \overline{) 4.00} \\ \quad \underline{-36} \\ \quad \quad 40 \end{array}$$

Examples

Ⓐ $0.375 = \frac{375}{1000}$

Ⓑ $\frac{4}{4} = 1$

Ⓒ $\frac{5}{8} = 0.625$

$$\begin{array}{r} 5 \overline{) 5.000} \\ \quad \underline{-4} \\ \quad \quad 10 \\ \quad \quad \underline{-8} \\ \quad \quad \quad 20 \\ \quad \quad \quad \underline{-16} \\ \quad \quad \quad \quad 40 \end{array}$$

Ⓓ Point H

0.25

Twenty-five hundredths

$\frac{25}{100}$

④ point z = $0.9 = \frac{9}{10} =$ nine tenths

⑥ Point Y = $0.8 = \frac{8}{10} =$ eight tenths

⑧ $0.63 = \frac{63}{100}$

⑩ $0.425 = \frac{425}{1000}$

⑫ $\frac{1}{100} = 0.01$

⑬ $\frac{1}{5} = 0.2$

⑮ Point F

0.50
0.5
five tenths
fifty hundredths

⑯

$\frac{3}{8} = 0.375$

$$\begin{array}{r} 3 \overline{) 3.000} \\ \quad \underline{-24} \\ \quad \quad 60 \\ \quad \quad \underline{-56} \\ \quad \quad \quad 40 \end{array}$$

$\frac{3}{8} = 0.375$



$$(22) 0.8 = \frac{8}{10}$$

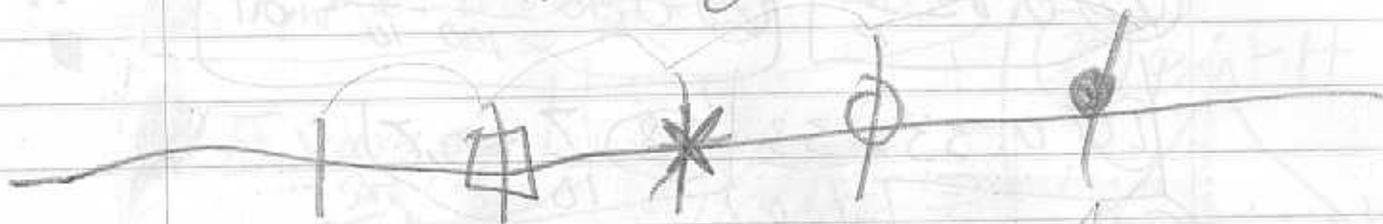
$$(29) 0.90 = \frac{90}{100} = \frac{9}{10} = 0.9$$

$$(10) 0.33 = \frac{33}{100}$$

$$(28) \frac{7}{10} = 0.7$$

$$(30) \frac{4}{5} = 0.8$$

● * □ ○

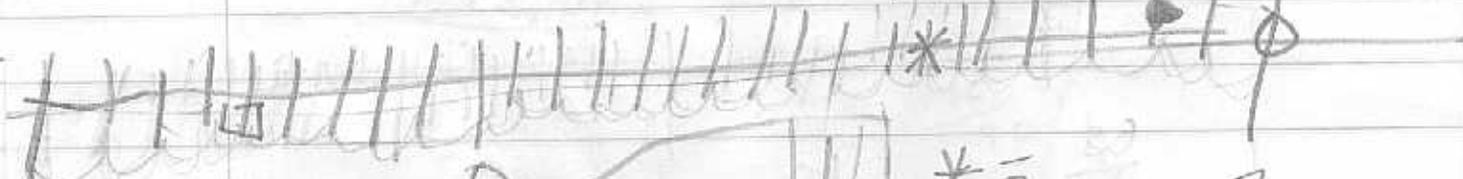


○ * = $\frac{2}{7}$

○ = $\frac{1}{7}$

● = $\frac{1}{4}$

□ = $\frac{1}{4}$

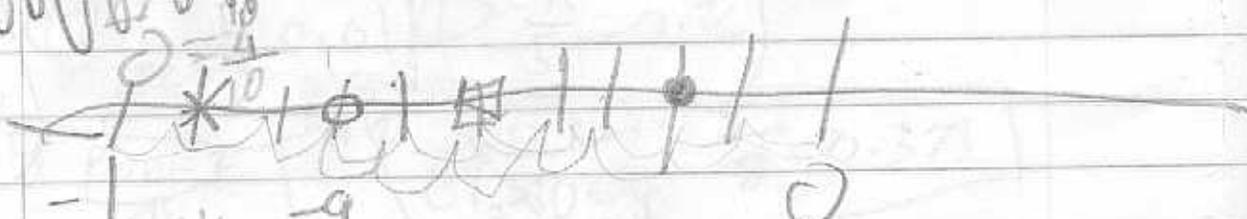


* = $\frac{1}{2}$

● = $\frac{1}{2}$

○ = $\frac{1}{2}$

□ = $\frac{1}{2}$



* = $\frac{9}{10}$

○ = $\frac{7}{10}$

● =

□ = $\frac{1}{10}$

FA

$$\frac{4}{6} = \frac{2}{3} = \frac{4}{6}$$

$$\textcircled{3} \frac{12}{16} = \frac{3}{4} = \frac{6}{8} = \frac{3}{4}$$

$$\textcircled{1} \frac{11}{24}$$

$$\textcircled{2} \frac{2}{6} = \frac{1}{3}$$

~~my paper is not over yet~~

~~that is not over yet~~

$\textcircled{4}$

WARM-UP
2/28/03

①



$$\bullet = 1\frac{3}{6} = 1\frac{1}{2}$$

② What is value of 3^5

$$3 \times 3 \times 3 \times 3 \times 3$$



③ Simplest Form

$$\frac{5 \div 5}{10 \div 5} = \frac{1}{2}$$

$$\frac{16 \div 4}{24 \div 4} = \frac{4}{6} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$

$$\textcircled{C} \frac{5}{8}$$

$$\textcircled{D} \frac{2 \div 2}{10 \div 2} = \frac{1}{5}$$

$$\begin{array}{r} 81 \\ \times 3 \\ \hline 243 \end{array}$$

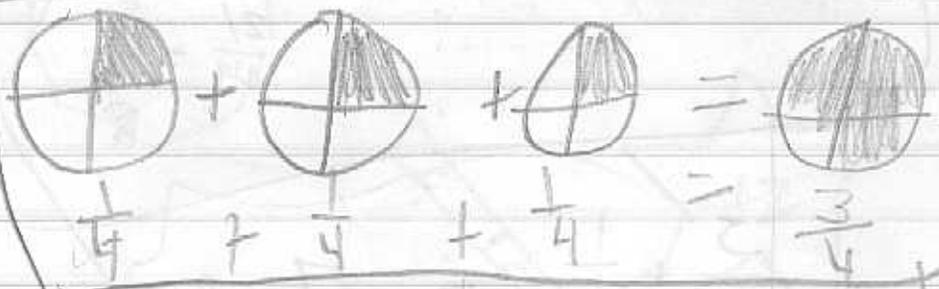
Adding Like Fractions

$$\frac{1}{8} + \frac{2}{8} = \frac{3}{8} \quad \frac{5}{16}$$

$$\frac{2}{12} + \frac{6}{12} + \frac{1}{12} = \frac{9}{12} \quad \frac{9}{36}$$

$$\frac{1}{4} + \frac{2}{8} = \frac{3}{8} \quad \frac{3}{18}$$

$$\frac{7}{16} + \frac{1}{16} = \frac{8}{16}$$



Like fractions just add Numerator

LE = JAN

adding unlike fraction

$\frac{1}{4} + \frac{3}{8} = \frac{1 \times 2}{4 \times 2} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8}$

LCM of 4 and 8 is 8.

$\frac{1}{4} = \frac{2}{8}$

$\frac{3}{8} = \frac{3}{8}$

$\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$

$\frac{6}{12} + \frac{5}{8} = \frac{6 \times 2}{12 \times 2} + \frac{5 \times 3}{8 \times 3} = \frac{12}{24} + \frac{15}{24} = \frac{27}{24} = \frac{9}{8}$

LCM of 12 and 8 is 24.

$\frac{6}{12} = \frac{12}{24}$

$\frac{5}{8} = \frac{15}{24}$

$\frac{12}{24} + \frac{15}{24} = \frac{27}{24} = \frac{9}{8}$

$\frac{3}{7} + \frac{1}{3} = \frac{3 \times 3}{7 \times 3} + \frac{1 \times 7}{3 \times 7} = \frac{9}{21} + \frac{7}{21} = \frac{16}{21}$

LCM of 7 and 3 is 21.

$\frac{3}{7} = \frac{9}{21}$

$\frac{1}{3} = \frac{7}{21}$

$\frac{9}{21} + \frac{7}{21} = \frac{16}{21}$

$$\begin{array}{r} 12 \\ + 9 \\ \hline 21 \end{array}$$

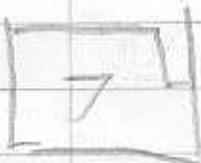
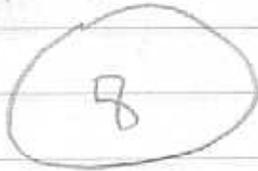
$$\begin{array}{r} 13 \\ + 5 \\ \hline \end{array}$$



Not a polygon



Not a polygon



Must be
a figure

can't be
a line

① A closed figure
- all lines connected

② Have corners
- vertices

③ traced made
edges

④ only one
space (simple shape)

1. Has curved
lines

② Have an
opening

③ lines through
the middle

④ have lines
sticking out

Warm-up
3/1/03

(A) Perfect

50% of 12 = 6
18 = 9
34 = 17
88 = 44

(B) 10%

10 = 1
100 = 10
1000 = 100
500 = 50

- 67%
- 33%
- 45%
- 16%
- 7%

PerCents

$$\textcircled{1} 58\% = \frac{58}{100} = .58$$

$$\textcircled{2} 64\% = \frac{64}{100} = .64$$

$$\textcircled{3} 5\% = \frac{5}{100} = 0.05$$

$$\textcircled{4} 25\% \text{ of } 40 = 10$$

$$\frac{25}{100} = \frac{1}{4} = 10\% = 40$$

$$\textcircled{5} 36\% \text{ of } 29$$

$$\begin{array}{r} \times 36 \\ 1594 \\ + 2970 \\ \hline 3564 \end{array}$$

$$\textcircled{6} 36$$

$$15\% \text{ of } 29 = 4.35$$

$$\begin{array}{r} \times 15 \\ 145 \\ + 290 \\ \hline 435 \end{array} \textcircled{7} 5$$

48⁷ 10

4.8

4.2

3.5

3.50

0

48

x .1

4.8

100

0

70

4.56

-1.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.5

3.50

① \$100
 of
 10% = \$10.00
 30% = \$30.00
 50% = \$50.00

② \$50
 of
 10% = \$5.00
 30% = \$15.00
 50% = \$25.00

③ \$35
 of
 10% = \$3.50
 30% = \$10.50
 50% = \$17.50

④ \$48
 of
 10% = \$4.80
 30% = \$14.40
 50% = \$24.00

⑤ \$16.1
 of
 10% = \$1.61
 30% = \$4.83
 50% = \$8.00

Handwritten scribbles and vertical lines on the left margin.

Faint handwritten notes and calculations on the right side of the page.

~~XXXXXXXXXXXX~~

| <u>U</u> | <u>A</u> | <u>X</u> | <u>X</u> |
|----------|----------|----------|----------|
| 20 | 5 | 40 | 20 |
| 50 | 10 | 10 | 50 |
| 10 | -30 | -30 | 10 |
| -10 | -30 | -30 | -10 |
| -30 | 10 | 10 | -50 |
| -20 | 40 | 40 | -20 |

Find 15% of 48

$$\begin{array}{r}
 48 \\
 \times 0.15 \\
 \hline
 240 \\
 480 \\
 \hline
 7.20
 \end{array}$$

7.20

25% of 36

9.00

35% as decimal

.35

50% of 28

14.00

Find $\frac{85}{100}$ as a percent

0.85 as percent

$$\begin{array}{r}
 85 \\
 \times 25 \\
 \hline
 425 \\
 1700 \\
 \hline
 2125
 \end{array}$$

85%

80%

0.9 as %

90%

0.15 as % 15%

0.05 as %

5%

$\frac{55}{100}$ as %

55%

$$\frac{30}{35} = \frac{6}{7}, \frac{12}{14}, \frac{18}{21}, \frac{24}{28}, \frac{36}{42}, \frac{48}{56}, \frac{54}{63}$$

$$\frac{40}{64} = \frac{5}{8}, \frac{10}{16}, \frac{15}{24}, \frac{20}{32}, \frac{25}{40}, \frac{30}{48}, \frac{35}{64}, \frac{40}{72}$$

$$\frac{21}{49} = \frac{3}{7}, \frac{6}{14}, \frac{9}{21}, \frac{12}{28}, \frac{15}{35}, \frac{18}{42}, \frac{24}{56}, \frac{27}{63}$$

$$\frac{15}{24} = \frac{5}{8}, \frac{10}{16}, \frac{15}{24}, \frac{20}{32}, \frac{25}{40}, \frac{30}{48}, \frac{35}{56}, \frac{40}{64}, \frac{45}{72}$$

$$\frac{15}{40} = \frac{3}{8}, \frac{4}{10}, \frac{6}{15}, \frac{8}{20}, \frac{10}{25}, \frac{12}{30}, \frac{14}{35}, \frac{16}{40}, \frac{18}{45}$$

44
70
25

$$\frac{2}{5} = \frac{12}{30}$$

$$\frac{3}{8} = \frac{18}{48}$$

$$\frac{7}{42} = \frac{11}{66}$$

Today in class, I had a "magic calculator". How it works is you take 10 popical sticks and two long loonnnggg pieces of tape. Then you place the two pieces of tape on your desk and place the popical sticks two or three fingers apart. After that cut a 9" x 4" grid into 9 strips across and glue one to each stripe (the length is for your name). Then if you want to find a equivalent fraction to say... $\frac{3}{8}$ all you would have to do is find the row that starts with 3 and then find the row that starts with 8 put them together and you get a bunch of equivalent fractions such as:

| | | | | | | | |
|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| $\frac{6}{16}$ | $\frac{9}{24}$ | $\frac{12}{32}$ | $\frac{15}{40}$ | $\frac{18}{48}$ | $\frac{21}{56}$ | $\frac{24}{64}$ | $\frac{27}{72}$ |
|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

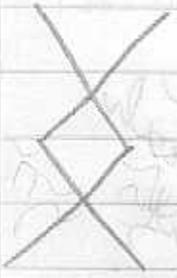
Great explanation of how it works. Why does it work? (11)



Love: + Addition
hate: - subtraction

Job ideas: banker

fract: open eyes under water
beach



The Klick calculator
work about the same way a
multiplication table works. It is like
the big one because if you line
up the rows exactly the numerator
and the denominator are multiplied by
the same number and that is basically
what the big one is

Math

$$\begin{array}{r} \text{High} \\ 573 \\ \hline \text{middle} \\ 272 \end{array}$$

$$\begin{array}{r} \text{Elementary} \\ 171 \end{array}$$

$$\begin{array}{r} 13 \\ 74 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ 100 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ 17 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ 100 \\ \hline \end{array}$$

$$\begin{array}{r} \checkmark \\ 7900 \end{array}$$

$$\begin{array}{r} \checkmark \\ 1700 \end{array}$$

$$\begin{array}{r} 6 \\ 17 \\ \hline \end{array} \begin{array}{|c|} \hline 100 \\ \hline \end{array} \begin{array}{r} 600 \\ 1700 \end{array}$$

$$\begin{array}{r} 2 \\ 100 \\ \hline \end{array} \begin{array}{|c|} \hline 17 \\ \hline \end{array} \begin{array}{r} 34 \\ 1700 \end{array}$$

$$\begin{array}{r} 6 \\ 79 \\ \times 17 \\ \hline 553 \\ + 790 \\ \hline 1343 \end{array}$$

$$\begin{array}{r} 13 \\ 74 \\ \hline \end{array} \begin{array}{|c|} \hline 100 \\ \hline \end{array} \begin{array}{r} 1,300 \\ 74,000 \end{array}$$

$$\begin{array}{r} 12 \\ 100 \\ \hline \end{array} \begin{array}{|c|} \hline 17 \\ \hline \end{array} \begin{array}{r} 1,300 \\ 7900 \end{array}$$



$$\frac{13}{2} = 6.5$$

= Rang

Cluster = a big bunch of data that is together

Outliers = Separate from the rest of the data

Range = difference between least and greatest number

Cumulative frequency = running total

Math ✓

$$\begin{array}{r}
 31 \\
 +27 \\
 \hline
 58 \\
 +16 \\
 \hline
 74
 \end{array}$$

- ①
- ② 5
- ③ 64
- ④ 96
- ⑤ 7.5
- ⑥ 20
- ⑦ 39
- ⑧ 9

$$\begin{array}{r}
 14 \\
 -5 \\
 \hline
 9
 \end{array}$$

- ⑨ 8, 9, 12, 15, 17, 20
- ⑩ 22, 26, 31, 34, 37, 37

$$\begin{array}{r}
 ⑫ 110 \\
 -60 \\
 \hline
 50
 \end{array}$$

$$\begin{array}{r}
 ⑬ 96 \\
 -64 \\
 \hline
 32
 \end{array}$$

$$\begin{array}{r}
 ⑭ 118 \\
 -145 \\
 \hline
 23
 \end{array}$$

$$\begin{array}{r}
 ⑮ 59 \\
 -32 \\
 \hline
 27
 \end{array}$$

$$\begin{array}{r}
 ⑯ 3 \\
 -76 \\
 \hline
 73
 \end{array}$$

$$\begin{array}{r}
 2 \\
 \$1.50 \\
 \times 5 \\
 \hline
 \$7.50 \\
 +7.50 \\
 \hline
 \$15.00
 \end{array}$$

Warm-up

3/10/05

Mean = average

$$\begin{array}{r} \textcircled{1} \quad 9.00 \\ - 78 \\ \hline 22 \\ \textcircled{2} \quad 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 18 \\ + 22 \\ \hline 40 \\ \quad 14 \\ \hline 54 \end{array} \quad \begin{array}{r} 18 \\ \hline 35 \\ - 3 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 97.1600 \quad 90 \\ 6 \overline{) 583.000} \quad 110 \\ - 54 \downarrow \\ \hline 43 \downarrow \\ - 42 \downarrow \\ \hline 10 \downarrow \\ - 6 \downarrow \\ \hline 340 \downarrow \\ - 36 \downarrow \\ \hline 40 \end{array} \quad \begin{array}{r} 90 \\ 110 \\ 96 \\ 85 \\ 113 \\ 87 \\ \hline 583 \end{array}$$

work for
 3.00
 10.50
 12.00
 6.00
 15.00
 36.50
 15
 15
 30

| Week | Amount | OF |
|------|---------|---------|
| 1 | \$3.00 | \$3.00 |
| 2 | \$0.50 | \$3.50 |
| 3 | \$12.00 | \$15.50 |
| 4 | \$6.00 | \$21.50 |
| 5 | \$15.00 | \$36.50 |

① 7.30 Week 2

② 15.00
 - 0.50
 14.50

073
 5 | 36.50
 - 35.00
 1.50

~~1 2 3 4 5 6 7 8 9~~
 210
~~1 2 3 4 5 6 7 8 9~~
 Med = 5

High Amount CF Note

| Day | Amount | CF |
|-----|---------|---------|
| 1 | \$6.50 | \$6.50 |
| 2 | \$7.00 | \$13.50 |
| 3 | \$0.50 | \$14.00 |
| 4 | \$13.50 | \$27.50 |
| 5 | \$10.00 | \$37.50 |

4.00
13.50
27.50

① Mean: 7.50

② CF 37.50
See above

③ Median: 7.00

④ Range: 13.00

⑤ Mode: No Mode

13.50
- 50
13

07.50
5 | 37.50
- 35
25

0.50, 6.50, 7.00, 13.50, 14.00

Stem

leaf

Stem and leaf

1

2

3, 4, 6

3

2

4

5, 7

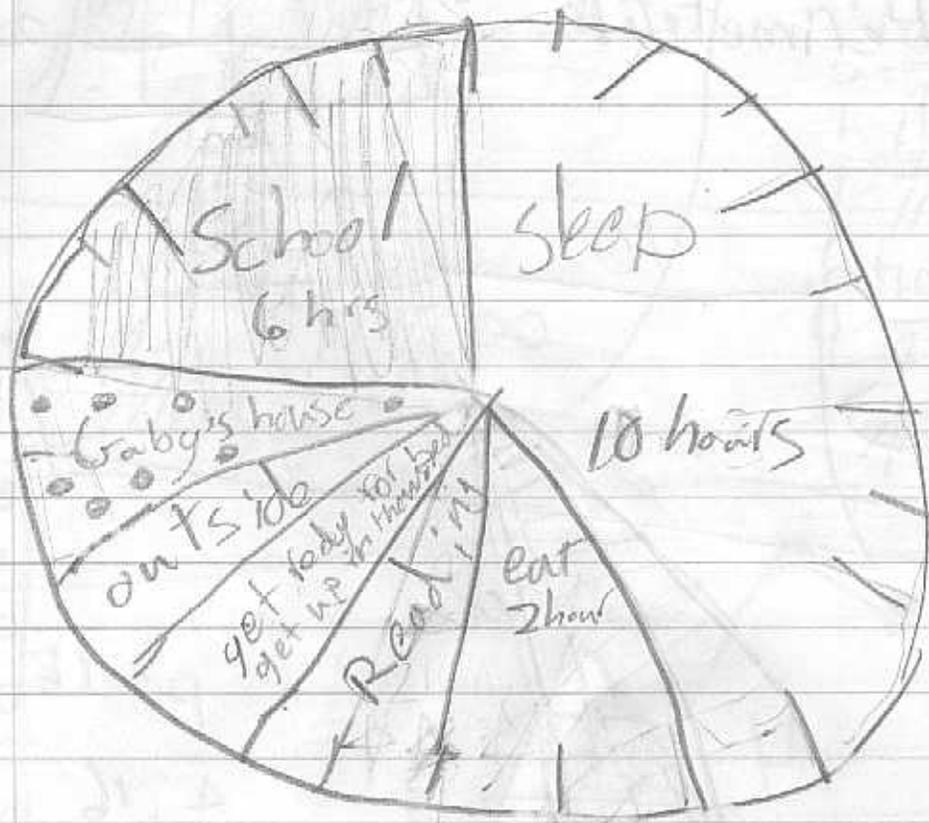
5

6

7

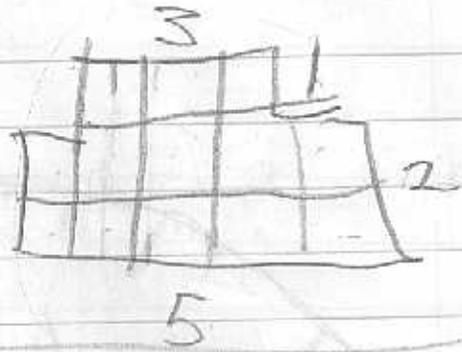
8

9



Key

① Area: 13
Perimeter: 16



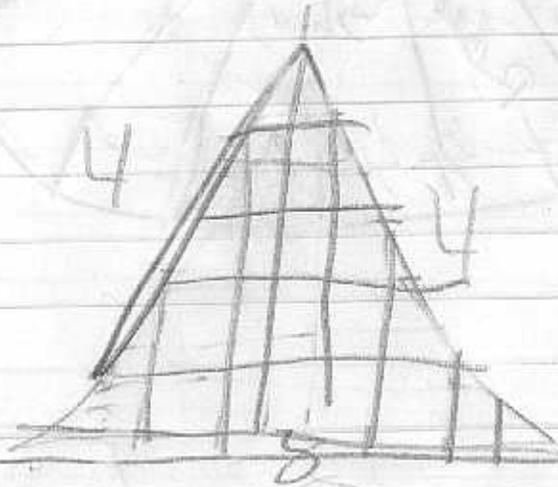
$$\begin{array}{r} 6 \\ +8 \\ \hline 14 \end{array}$$

②



P: 26
A: 30

③

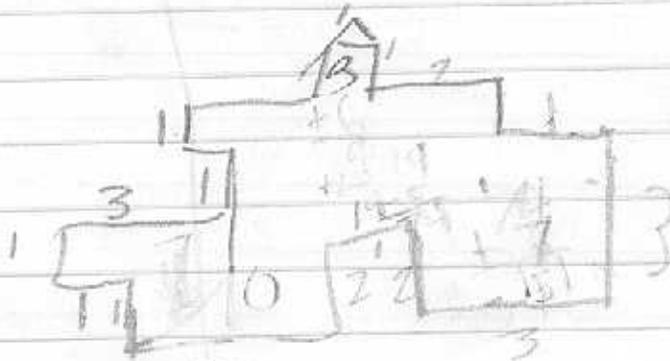


P: 16
A: 16

$$\begin{array}{r} 4 \times 4 \\ 14 \times 16 \\ \hline 128 \end{array}$$



④



P: 32

Find m, m, m

Mean = 34

9, 12, 13, 14, 15

$$\begin{array}{r} 1270 \\ -260 \\ \hline 10 \end{array}$$

Med: 13.5
 Mean: 14.666...
 Mode: 14

34

59

19

11

610

421

121

~~9~~
~~12~~
~~13~~
~~14~~
~~15~~

My section time

85
 60
 40
 30
 20
 10
 0
 Minutes



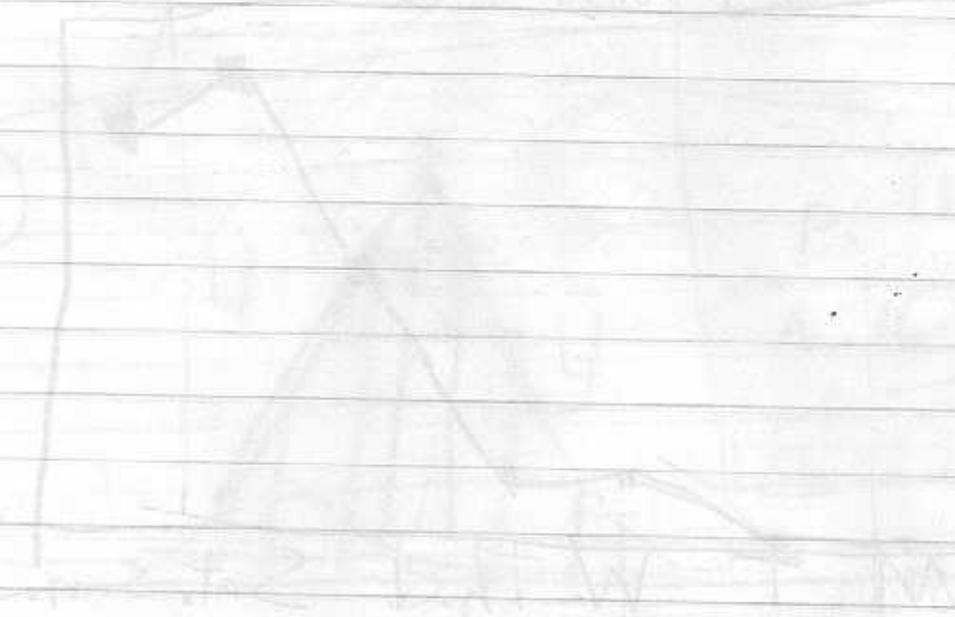
Chunk = 15 min

60
 45
 125
 125

H.T. = 10/10/21

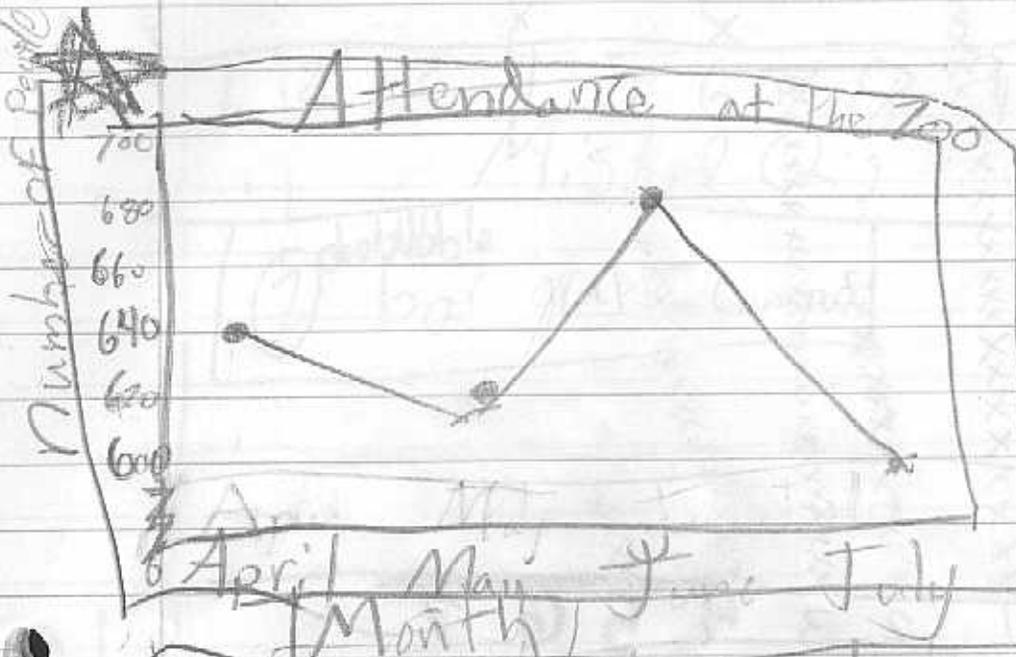
Scale: is the series of numbers starting at zero placed at fixed distances on a graph

Interval: is the difference between one and the next on the scale

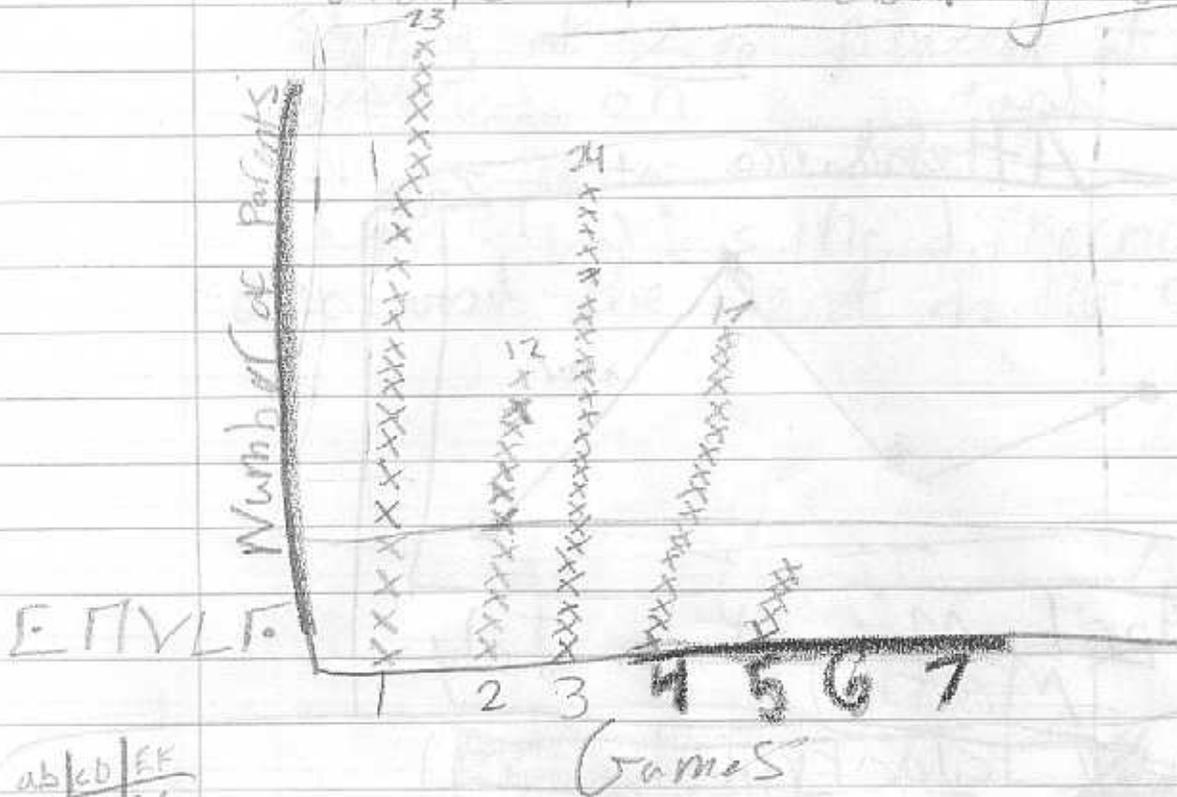


25 of 12/15

Handwritten notes at the top of the page, including a date and some illegible text.



Parents at baseball games



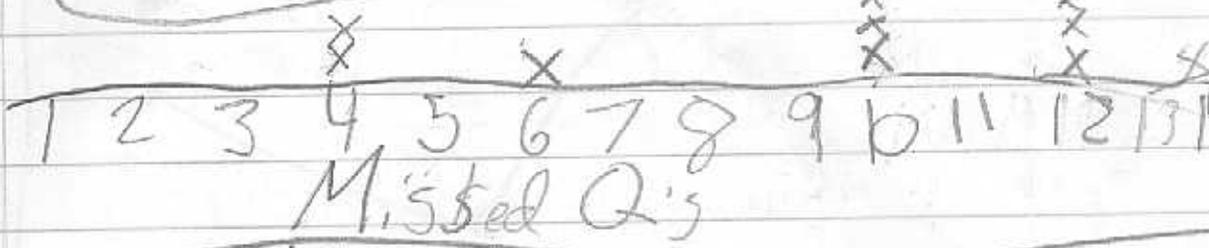
| | | |
|----|----|----|
| ab | cb | EF |
| Gh | ij | Kl |
| mn | op | qR |

~~uv~~ ~~st~~
~~xy~~ ~~wz~~

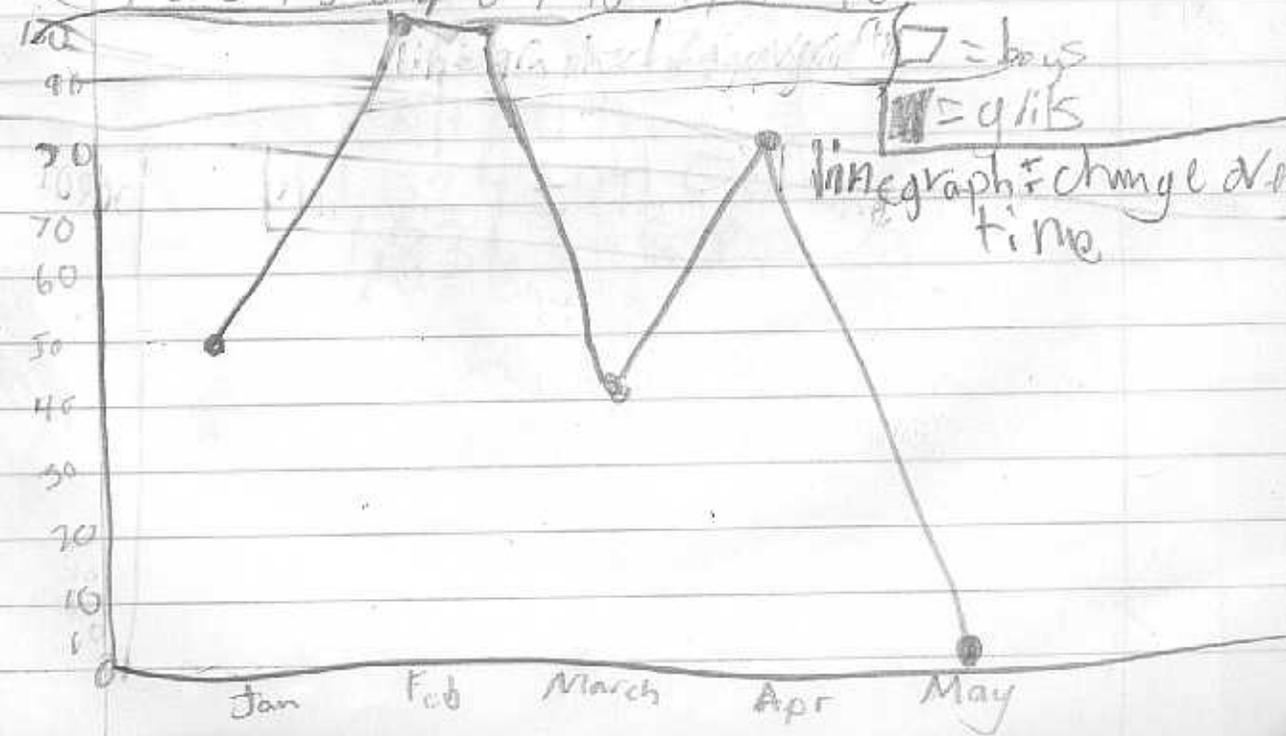
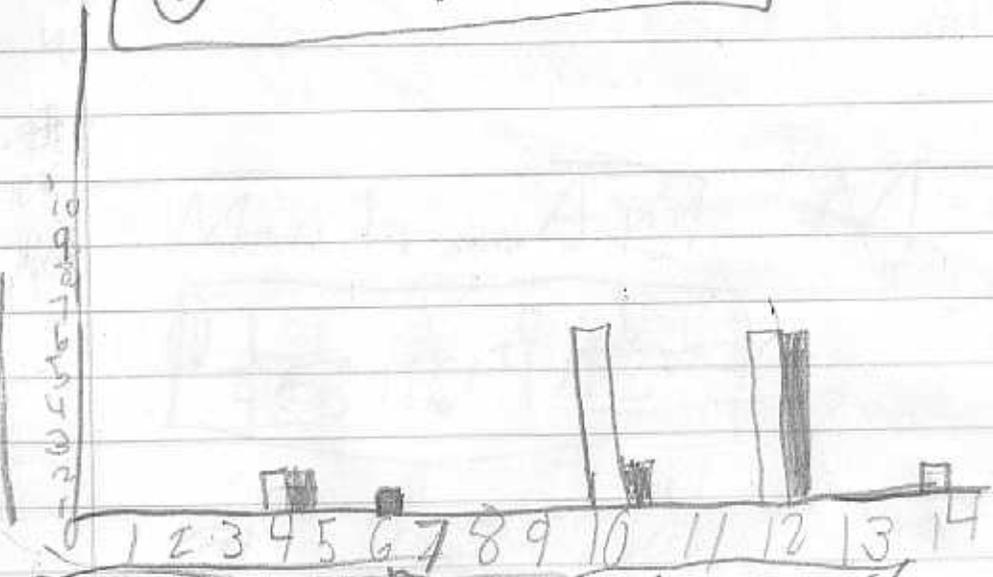
Types of graphs

Number of kids

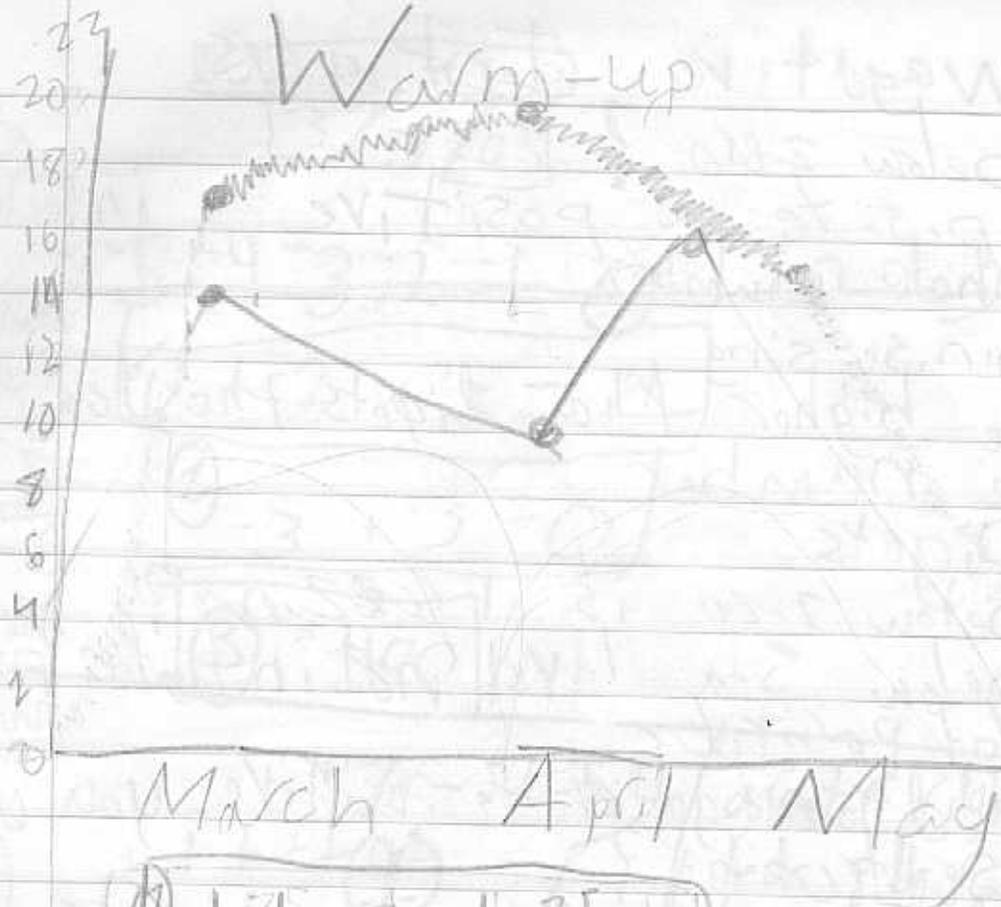
① line plot record



② ^{double} bar graph - Compar



Warm-up



$$\textcircled{1} \frac{1}{9}, \frac{1}{8}, \frac{3}{16}, \frac{1}{4}, \frac{25}{50}$$

 Rain
 Max

$$\textcircled{2} \begin{array}{r} 10,243.01 \\ \quad \quad \quad \times \quad .17 \\ \hline 711707.28 \\ \downarrow \\ 1,0243040 \\ \hline 1,831,3168 \end{array}$$

7

Negative Integers

- below zero?
- opposite a positive integer
- whole number
- min. se. sing
- the higher the digits the lower the number

• Digits

- below zero is freezing?
- below sea level not in water?
- Not positive

• Add negative to positive you are subtracting?

• Add bigger number to negative number you get a smaller number

• Negative

? Add negatives do you get a positive

? What exactly is a negative number

? Why is a larger negative lower in value.

Warm up
3/31/05



Eliza

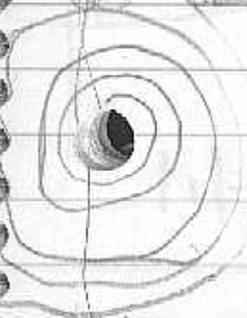
-5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5

① $-2 + 3 = +1$

② $-3 + 3 = 0$

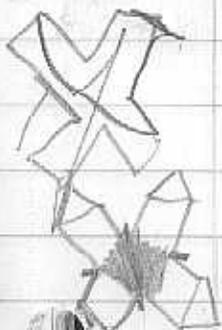
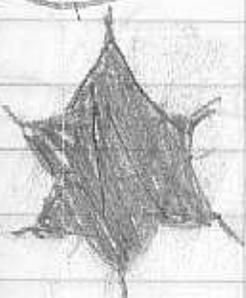
③ $+400$

Elizabeth



+7 - -2 = 5
+++++
④

greater = right
less = left
more = right
difference = Subtract



E

Warm-up

1 $5 + 2 = 3$
~~++~~ ++
~~-~~

2 $3 + 4 = 1$
~~++~~
~~-~~

3 $4 + 4 = 0$
~~++~~
~~-~~

4 $5 + 7 = -2$
~~++~~
~~-~~

1 $4 + 1 = 3$ - 2 + 2
~~+~~

3 $4 + 4 = 0$
~~++~~

-4
 $A = |a|$



Subtract Integers

① $8 + 4 - 1 = 11$

+++
- 1 = 11

(x)

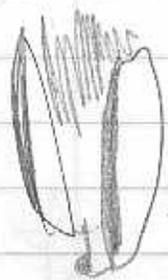
② $-3 - 2 = -5$

(x)

③ $44 - 46 = -2$

+++ (x) (x) (x) (x)

2



Three things I have in
common with my math partner

① we are both girls

② we both like watching sports

③ we both hate Bush:
and Shwarzingerger.



Warm-up
7/4/6/05

① $+2 - 1 = +3$

② $-7 - +3 = -10$

③ $+5 + -2 = +3$

④ $876543210 \quad 12345678$

$+3 - +3 = +0$

⑤ $+64 + +26 = +90$



26
+64
90

2

Warm-up

11/7/05

Negatives:

Lose -1

Win +1

1 score is $-3 + -3 = -6$

2 score is $+5 + -2 = +3$

3 score is $-6 + +3 = -3$

1 a loss of ten yards

-10

2 $-11 - +1$

-12

3 $-6 - +2$

-8

$-10 + 3$

-4

-2

$+5$

$+3$

-3

0

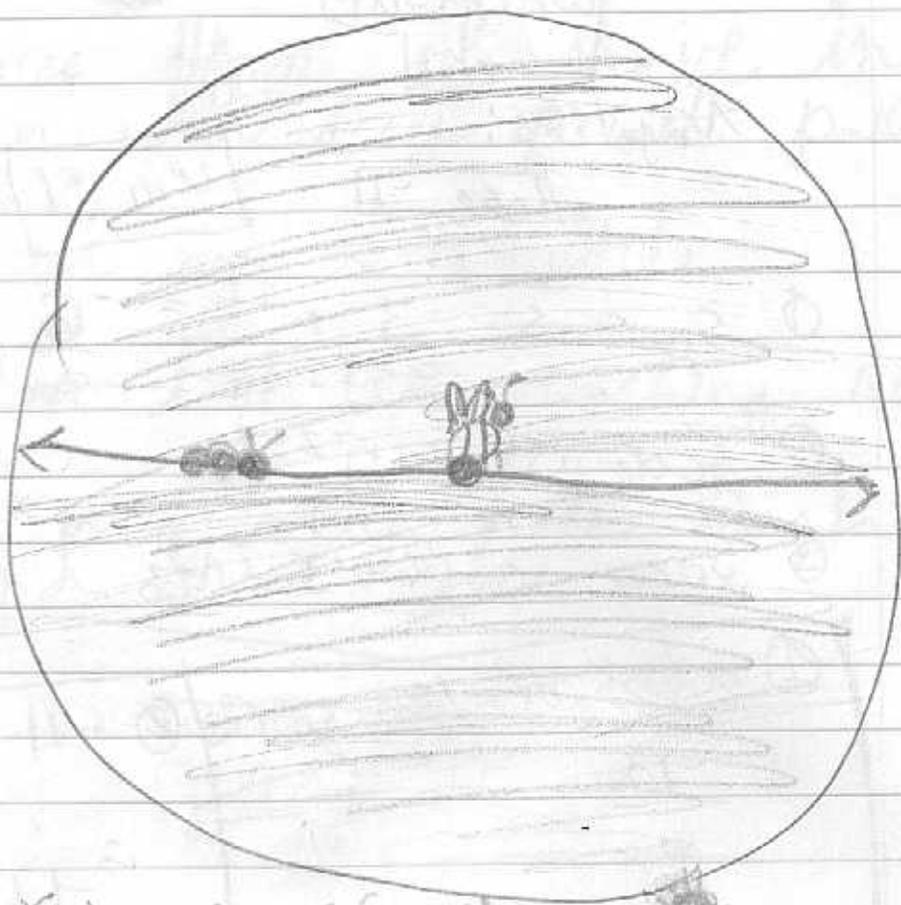
temp @ 6 am -2°

10 am $+5^\circ$

10 pm $\downarrow 3^\circ$

27
5
13
10
13
3
1
5
2
+

-inter



3. Circumference around

Di. Diameter \leftrightarrow across

Ray Dia \rightarrow halfway

 = Area

Circumference:
 $C = d \times 3.14$
 $\pi = 3.14$

π



$$d = 12''$$

$$r = 6''$$

$$C = 37.68$$

~~114~~

3.14

~~12~~

~~37.68~~

68

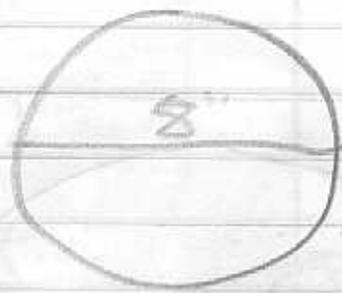
3.14

$\times 12$

37.68

37.68

452.16

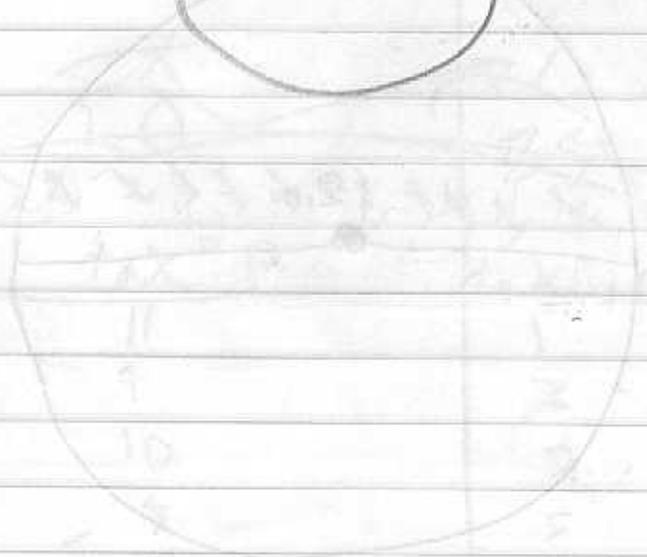


$$d = 8$$

$$r = 4$$

$$C = 25.12$$

$$A = 50.24$$

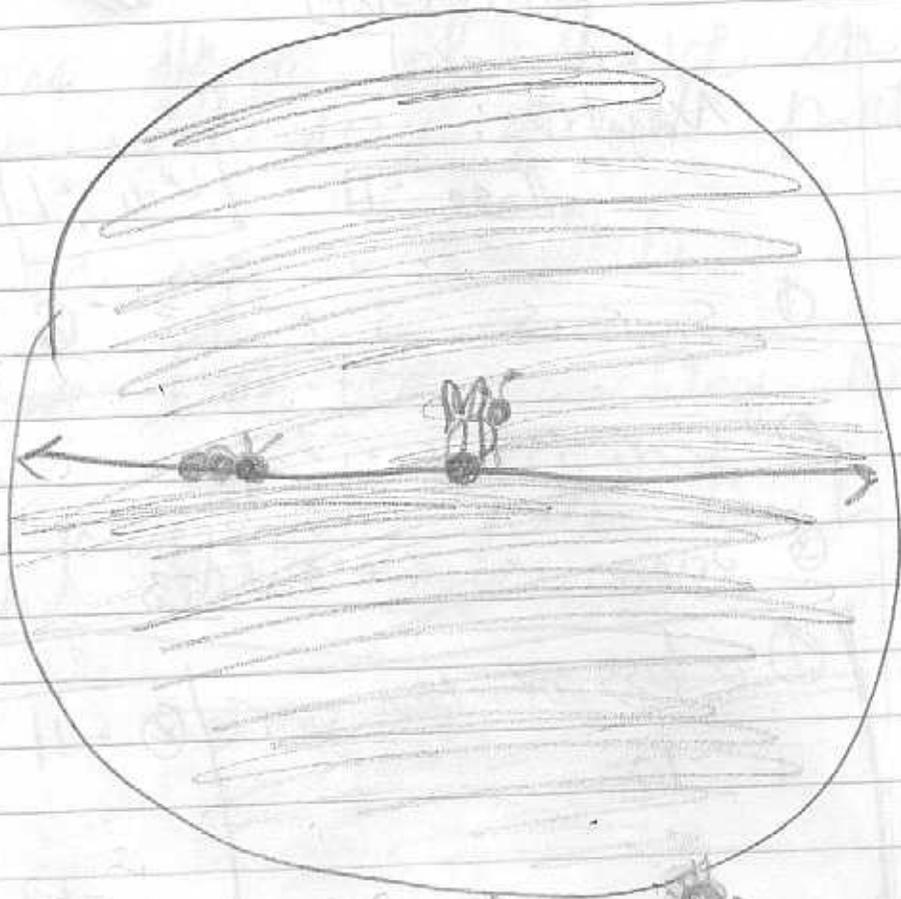


$$C = 31.4$$

$$A = 78.5$$

$$V = 523.6$$

$$S = 157.08$$



circumference around

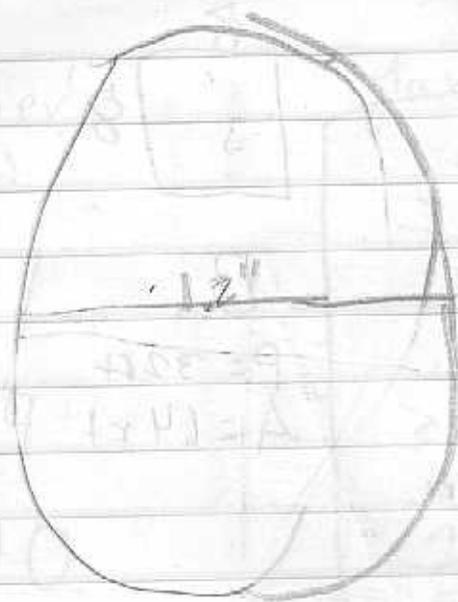
D : diameter  \leftrightarrow across

Ray D is  \rightarrow halfway

 = Area

Circumference:
 $C = d \times 3.14$
 $\pi = 3.14$

π



$$d = 12''$$

$$r = 6''$$

$$C = 37.68$$

$$3.14$$

$$\times 12$$

$$= 37.68$$

$$3.14$$

$$\times 12$$

$$= 37.68$$

$$3.14$$

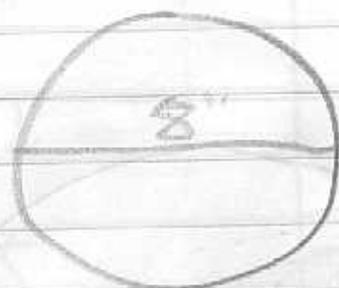
$$\times 12$$

$$= 37.68$$

$$3.14$$

$$\times 12$$

$$= 37.68$$



$$d = 8$$

$$r = 4$$

$$C = 25.12$$

$$A = 50.24$$

$$3.14$$

$$\times 8$$

$$= 25.12$$

$$3.14$$

$$\times 8$$

$$= 25.12$$

$$3.14$$

$$\times 8$$

$$= 25.12$$

$$3.14$$

$$\times 8$$

$$= 25.12$$



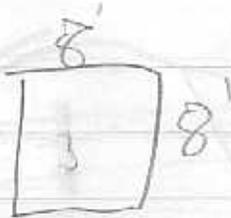
$$\begin{array}{r} 6 \\ + 5 \\ \hline 30 \end{array}$$



A.

$$P = 20 \text{ ft}$$

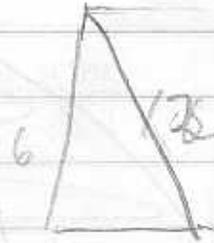
$$A = 24$$



B.

$$P = 32 \text{ ft}$$

$$A = 64 \text{ ft}^2$$



C.

$$P = 23$$

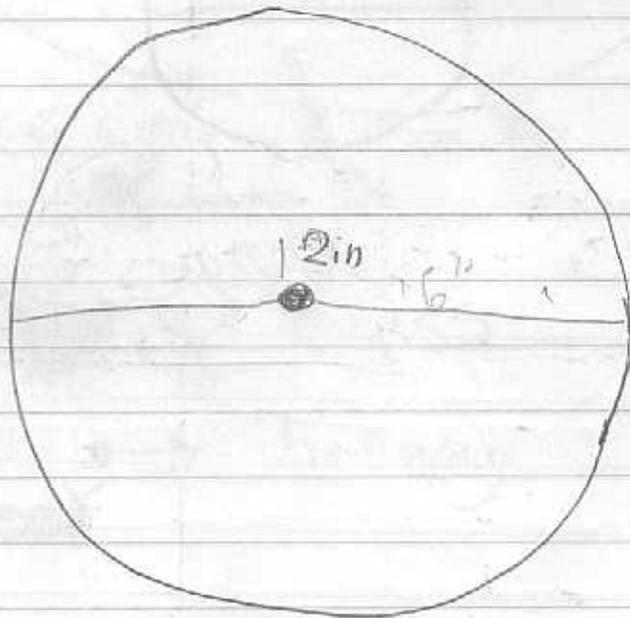
$$A = 15$$

$$\pi = 3.14$$

$$\times 12$$

$$\begin{array}{r} 628 \\ + 3140 \\ \hline 3768 \end{array}$$

12 in



$$C = 37.68 \text{ in}$$

$$R = 6 \text{ in}$$

$$D = 12 \text{ in}$$

$$A = 113.04$$

$$\begin{array}{r} 3.14 \\ \times 36 \\ \hline 1884 \\ + 4420 \\ \hline 11304 \end{array}$$

~~11 9 10 8 7 6 5 4 3 2 1~~

Tax Payer

tax collector

11

1

9

3

10

2 5

8

4

+ 12

6

~~7~~

~~7~~

~~5 0~~

tax P

tax C

11

1

9

3

10

2

8

5

+ 12

4

50

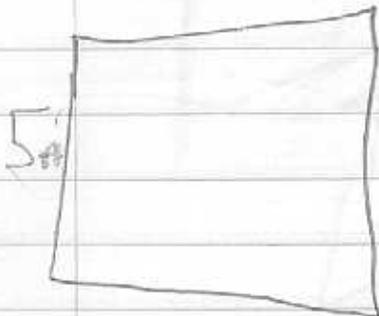
6

+ 7

28

11
9
10
8
7

①



8 ft

$$A = 40 \text{ ft}^2$$

$$P = 26 \text{ ft}$$

②

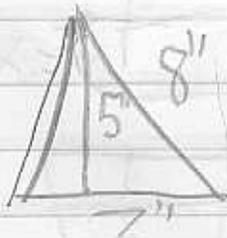


5 m

$$A = 30 \text{ m}^2$$

③

$$\begin{array}{r} 1.5 \\ \times 5.6 \\ \hline 9.0 \\ 7.5 \\ \hline 8.40 \end{array}$$



$$A = 17.5 \text{''}^2$$

④

$$\begin{array}{r} 1.34 \\ \times 3.74 \\ \hline 9.236 \\ 39.88 \\ \hline 25.12 \end{array}$$



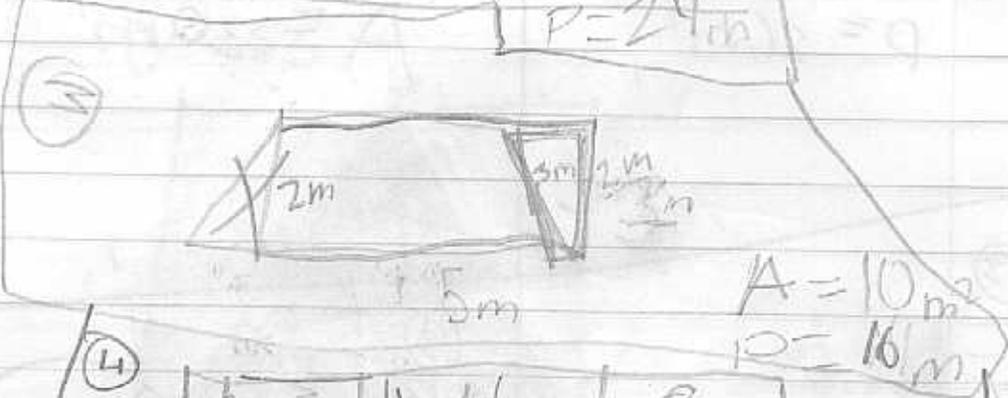
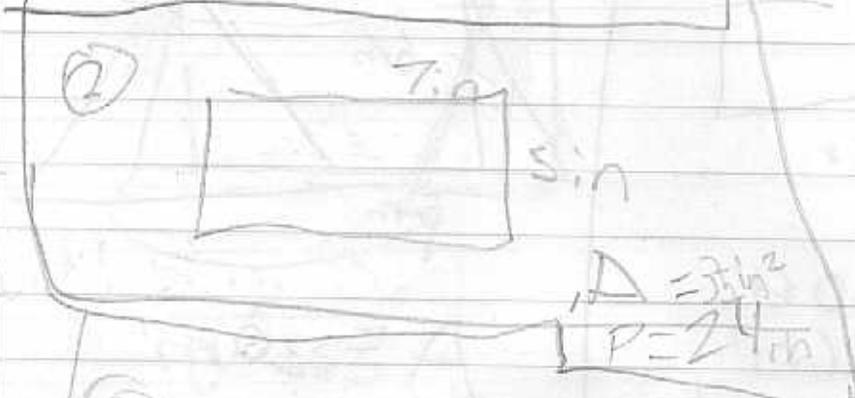
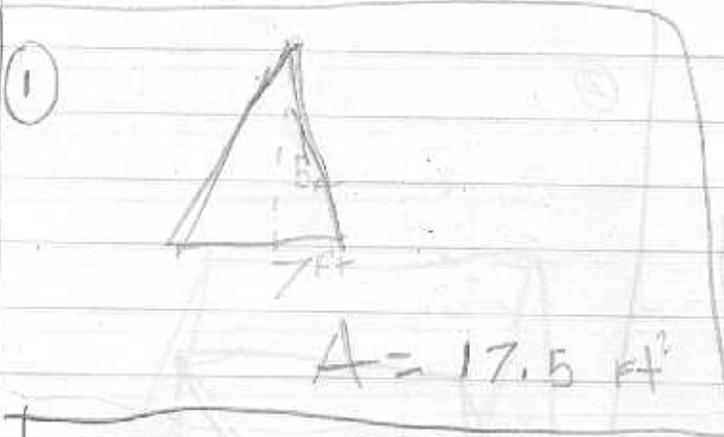
$$\begin{array}{r} 3.14 \\ \times 16 \\ \hline 50.24 \\ \hline 31.40 \end{array}$$

$$C = 25.12 \text{ ft}^2$$

$$50.24$$

$$d = 8 \text{ ft}^2$$

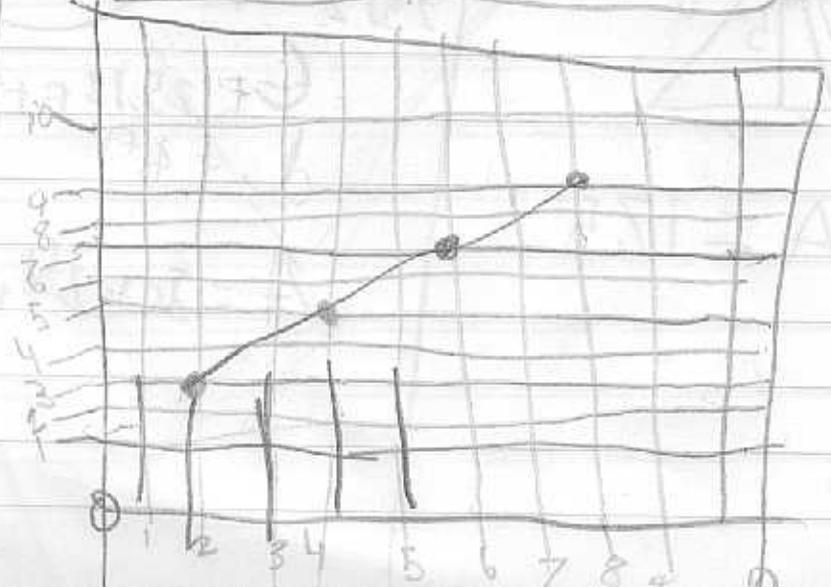
$$A = 50.24 \text{ ft}^2$$



④

| | | | | |
|---|---|---|---|---|
| x | 2 | 4 | 6 | 8 |
| y | 3 | 5 | 7 | 9 |

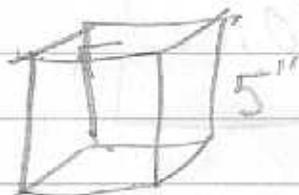
$Y = X + 1$



CL504



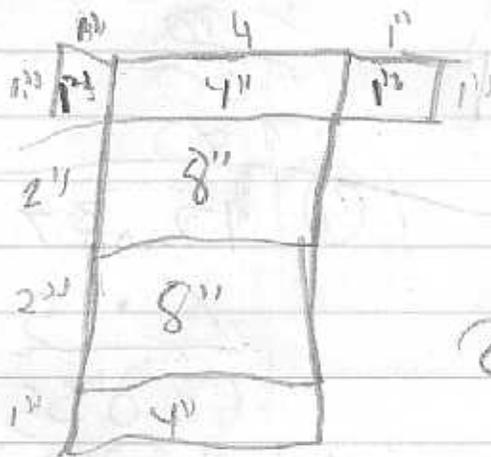
5" $\cdot 2 = A$



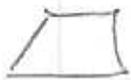
25 sq"

$25 \text{ in}^2 = 1 \text{ Face}$

$$\begin{array}{r} \times 6 \\ \hline 150 \text{ in}^2 \end{array}$$



26 in²



Geometry

① Find the Surface Area

$$SA = 128 \text{ in}^2$$



$$A = 15 \text{ in}^2$$
$$P = 20 \text{ in}$$



②

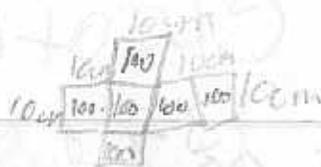
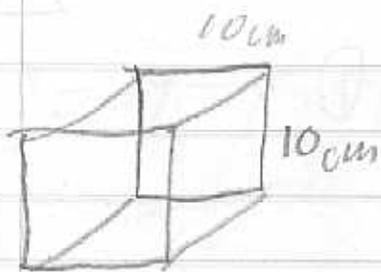


$$C = 62.80$$
$$D = 20 \text{ in}$$

16
x 2
32
46
+ 32
128

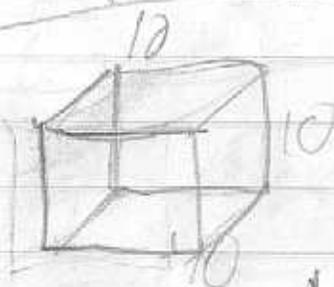
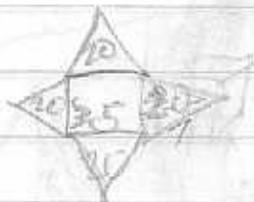
3.14
x 20
62.80
③ 12.007
x .15
600.35
+ 120070
1.80105

$$\begin{array}{r} 12.007 \\ \times .15 \\ \hline 60035 \\ + 120070 \\ \hline 1.80105 \end{array}$$



Surf Area = 600 cm^2

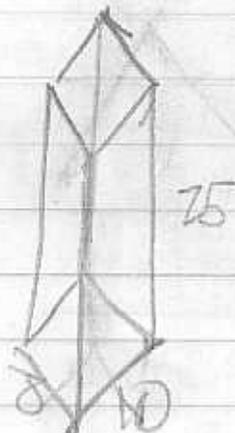
$SA = 105 \text{ in}^2$



Volume = $l \times w \times h$
 $(V = l \times w \times h)$

$V = 1000 \text{ cm}^3$

rigid
 + h



$25 \times 10 \times 8$

250×8

$2,000$

①

| x | y |
|---|----|
| 2 | 13 |
| 3 | 19 |
| 4 | 25 |
| 5 | 31 |
| 6 | 37 |
| 7 | 43 |

$$y = (x6) + 1$$

③

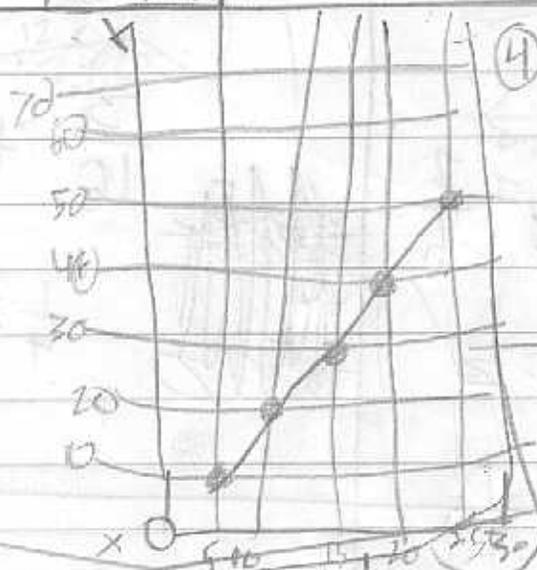
$$y = x + 3/2$$

| x | y |
|---|----|
| 1 | 8 |
| 2 | 10 |
| 3 | 12 |
| 4 | 14 |
| 5 | 16 |
| 6 | 18 |

②

$$x2 = y$$

(5, 10)
(10, 20)
(15, 30)
(20, 40)
(25, 50)



④

$$\frac{1}{4} \times \frac{9}{12} = \frac{9}{36}$$

$$\frac{3}{4} \times \frac{4}{12} = \frac{12}{36}$$

$$\frac{7}{12} = \frac{21}{36}$$

①

S = simplest form

$$\frac{1}{8} + \frac{5}{8} = \frac{6}{8} = \frac{3}{4}$$

②

$$\frac{6}{6} \times \frac{6}{8} + 1 = \frac{7}{8}$$

③

$$\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$

④

$$\frac{1}{3} \times \frac{2}{6} = \frac{2}{18} = \frac{1}{9}$$

$$\frac{1}{4} \times \frac{3}{12} = \frac{3}{48}$$

$$\frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1} = \frac{24}{4}$$



$$\frac{1}{2} \div \frac{3}{4} = \frac{2}{3}$$

$$\frac{1}{2} \times \frac{4}{3} = \frac{4}{6}$$

①

$$\frac{1}{2} - \frac{1}{3} = \frac{2}{6}$$

$$\frac{2}{6} \text{ Simplified } = \frac{1}{3}$$

$$\frac{3}{16} + \frac{4}{16} = \frac{7}{16}$$

$$\frac{1}{4} = \frac{4}{16}$$



$$\frac{1}{8} \times \frac{1}{4} = \frac{1}{32}$$

$$\frac{3}{4} \div \frac{1}{2} = \frac{3}{2}$$



$$\frac{3}{4} \times \frac{2}{1} = \frac{6}{4} = \frac{3}{2}$$



① $0.70 = 70\% = \frac{70}{100}$
 $\boxed{\$39.62}$

② $0.71 = 71\% = \frac{71}{100} \times 0.71$
 $\boxed{\$5.95}$
 4.22
 5.95
 $+ 41650$
 $\boxed{42245}$

③ $0.64 = 64\% = \frac{64}{100}$
 $\boxed{20}$
 $\times 0.64$
 12.80
 $\boxed{17.80}$

④ $1.99 = 99\% = \frac{99}{100}$
 $\boxed{11}$
 $\times 0.99$
 10.89
 $+ 490$
 $\boxed{1089}$

34.62
 $\times 70$
 $\boxed{27.340}$
 27.73

5.95





$$\begin{array}{r} 25 \\ \times 5 \\ \hline 125 \end{array}$$



① 50 out of 200 kids finished their race
 what % finished? 25%
 $\frac{50}{200} = \frac{1}{4} = 25\%$

② $\frac{1}{4} - \frac{1}{12} = \frac{3}{12} - \frac{1}{12} = \frac{2}{12} = \frac{1}{6}$

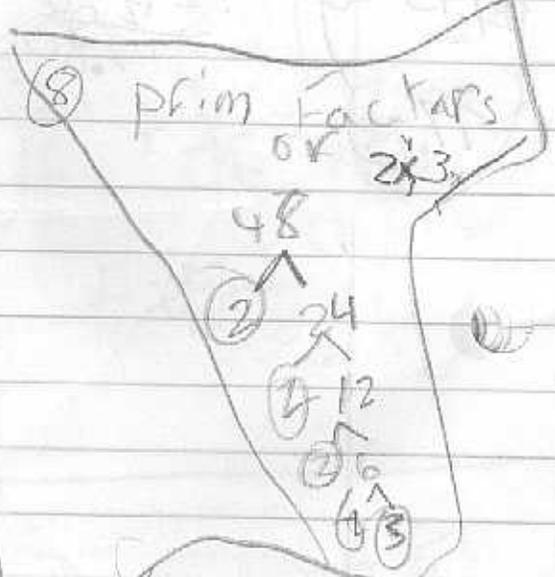
③ $\frac{1}{16} + \frac{4}{16} = \frac{5}{16}$

④ $5^3 = 125$

⑤ $\frac{1}{16} + \frac{1}{4} = \frac{1}{16} + \frac{4}{16} = \frac{5}{16}$

⑥ $\frac{1}{2} \times 4 = \frac{4}{2} = \frac{4}{1} = 4$
 $\frac{4}{16} = \frac{1}{4}$

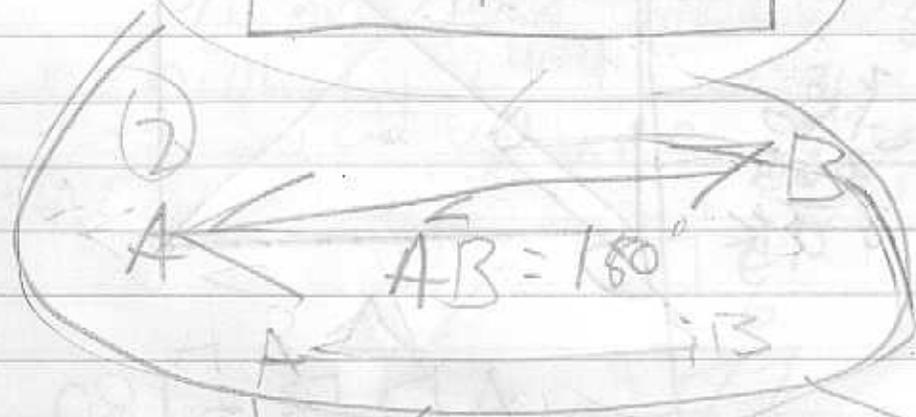
⑦ 1 out of 5 kids love home work. what % love homework?
 20%



1 out of 2 kids love vanilla ice cream
 what % love vanilla?
 50%

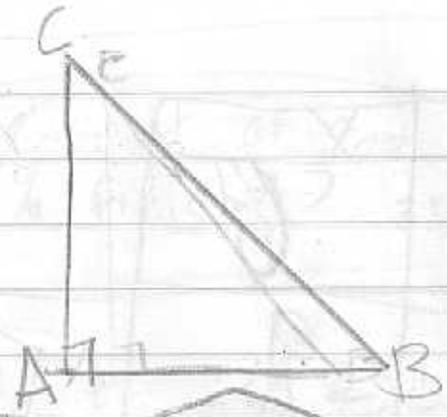
$x^2 + 5 = y$

| x | y |
|---|----|
| 1 | 6 |
| 2 | 9 |
| 3 | 14 |
| 4 | 21 |
| 5 | 30 |
| 6 | 41 |

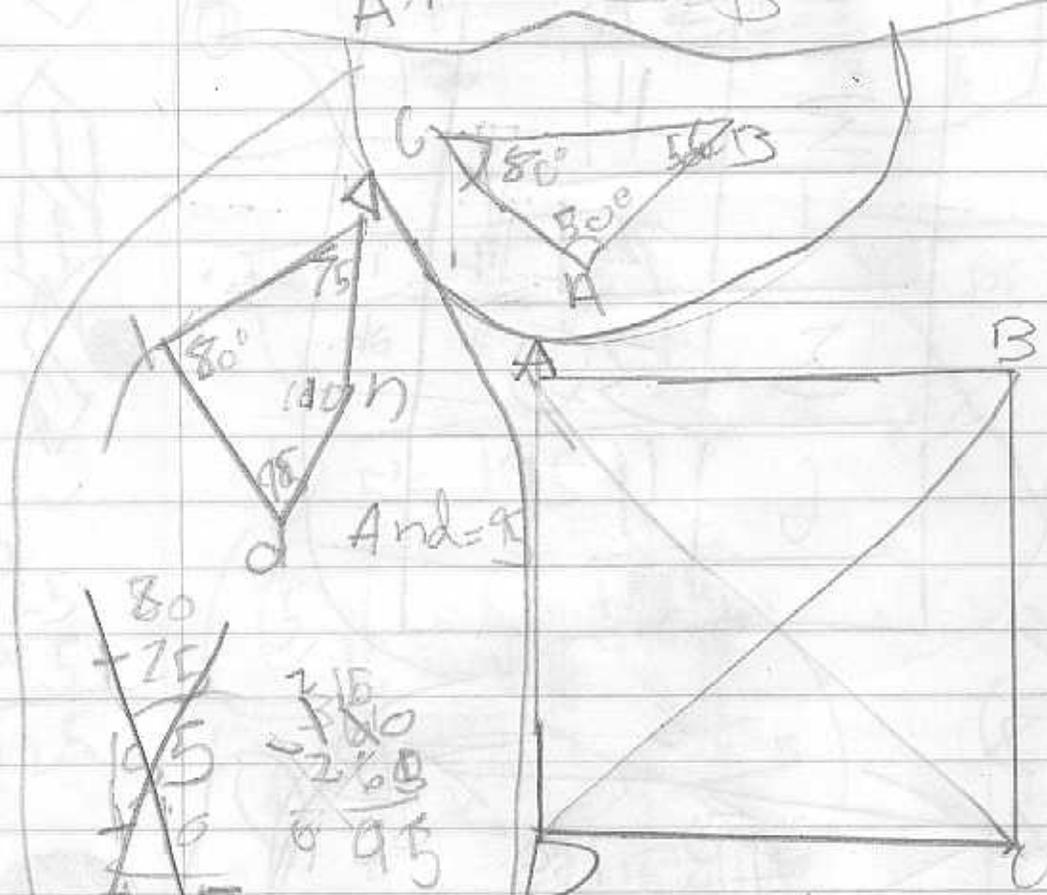


$\angle x + \angle y + \angle z = 180^\circ$

3



Tri. angle = 180
 Right = 90°
 $\angle B = 45^\circ$
 $\angle C = 45^\circ$



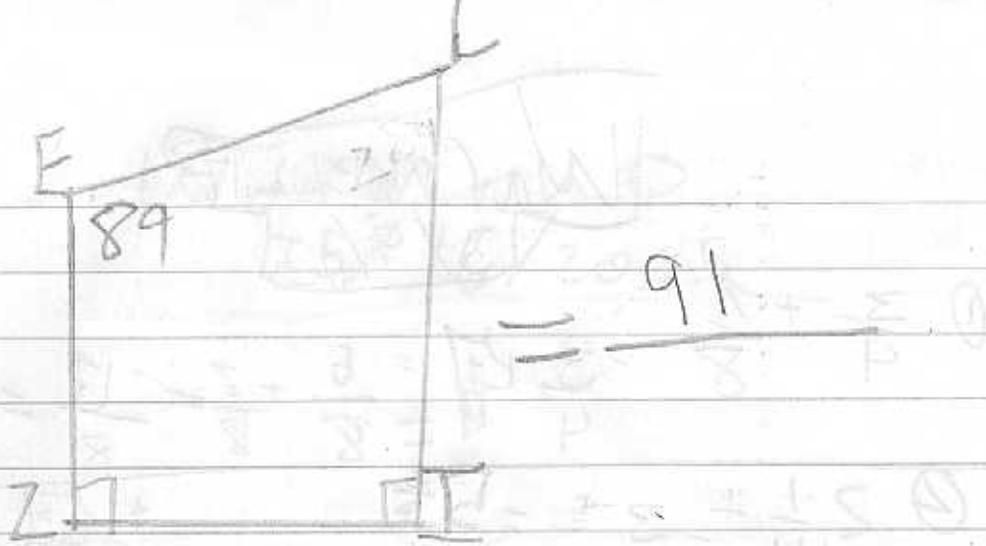
~~80
 + 75
 155
 + 75
 230~~

~~75
 + 75
 150
 + 75
 225~~

$\triangle ADB = 180$

80
 + 70
 150
 + 75
 225





$$\begin{array}{r}
 90 \\
 + 90 \\
 \hline
 180 \\
 89 \\
 \hline
 269
 \end{array}$$

$$\begin{array}{r}
 90 \\
 90 \\
 + 89 \\
 \hline
 269
 \end{array}
 \quad
 \begin{array}{r}
 13 \\
 2510 \\
 \cancel{860} \\
 - 269 \\
 \hline
 91
 \end{array}$$

this is a rectangular prism that measures 6" high, by 24" long 12" deep. How much volume of cake will the ball

~~$$\begin{array}{r}
 24 \\
 \times 6 \\
 \hline
 144
 \end{array}$$~~

$$\begin{array}{r}
 12 \\
 \times 6 \\
 \hline
 72
 \end{array}$$

$$\begin{array}{r}
 72 \\
 \times 24 \\
 \hline
 1728
 \end{array}$$

Warm-up

3/9/05

$$\textcircled{1} \frac{3}{4} + \frac{7}{8} \quad \frac{3}{4} \times \frac{2}{2} = \frac{6}{8} + \frac{7}{8} = \frac{13}{8} = 1 \frac{5}{8}$$

$$\textcircled{2} 2 \frac{1}{4} + 3 \frac{5}{12} = 5 \frac{7}{12}$$

$$\frac{1}{4} \times \frac{3}{3} = \frac{3}{12} + \frac{5}{12} = \frac{8}{12} = \frac{2}{3}$$

$$\textcircled{3} \frac{5}{8} - \frac{1}{6} = \frac{11}{24}$$

$$\frac{5}{8} \times \frac{3}{3} = \frac{15}{24} - \frac{1}{6} \times \frac{4}{4} = \frac{4}{24} = \frac{11}{24}$$

$$\begin{array}{r} 75 \\ + 75 \\ \hline 150 \\ + 75 \\ \hline 225 \end{array}$$

$$\textcircled{4} \frac{3}{4} = 75 \quad \frac{3}{4} \times \frac{25}{25} = \frac{75}{100}$$

$$\textcircled{5} \frac{12}{1} \div \frac{3}{4} = 9 \quad \frac{12}{1} \times \frac{4}{3} = \frac{48}{3} = 16$$

What does 9 give us
gives us nine.

$$\frac{12}{1} \div \frac{3}{4} = 16$$

Warm-up

5/16/2005

5/16/05

My ~~my~~ ^{my} Prob. ability

I have NO Idea

So this
is a
guess

What is
Probably
going to
happen in
the future

1 3 4 5 6 7 8 9 10 11 12

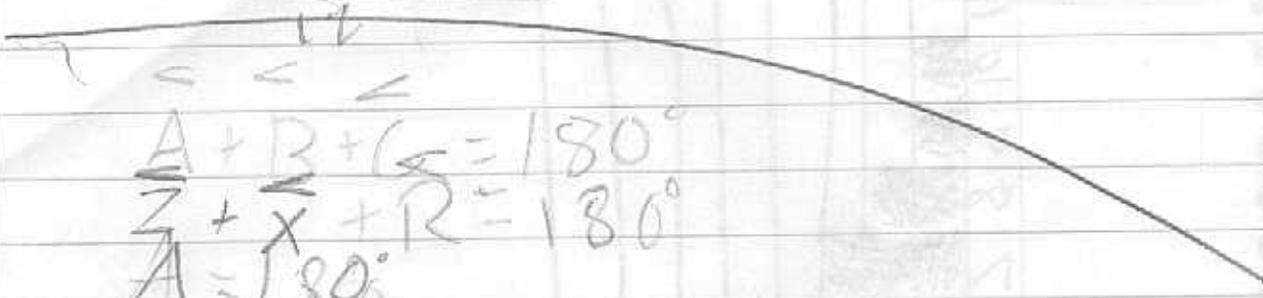
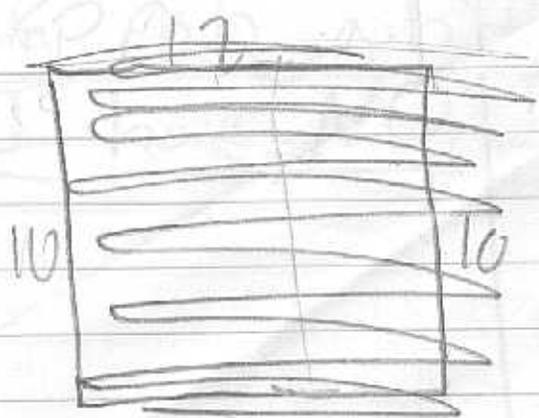
~~1 2 3 4 5 6 7 8 9 10 11 12~~

1 2 3 4 5 6 7 8 9 10 11 12

~~1 2 3 4 5 6 7 8 9 10 11 12~~

~~1 2 3 4 5 6 7 8 9 10 11 12~~

[Faint, illegible handwriting and diagrams on the right side of the page]



$$A + B + C = 180^\circ$$

$$A + X + R = 180^\circ$$

$$A = 180^\circ$$

$$\square = 180^\circ$$

3 sides Always 180°

$$\square = 360$$

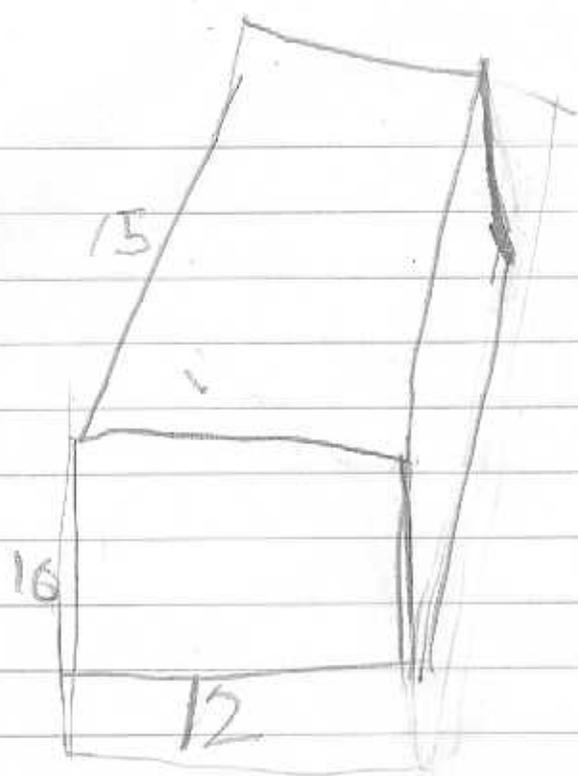
$$\square = 360$$

4 sides Always 360

$$L \times W \times H = V$$

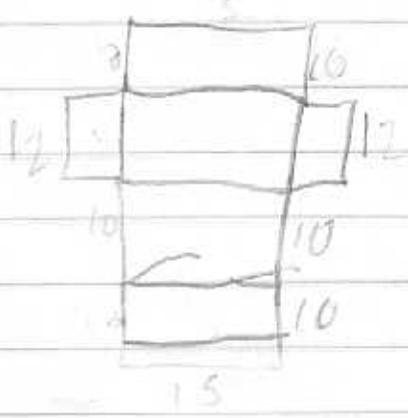
Length times width times Height equals volume

$$\begin{array}{r}
 15 \\
 \times 12 \\
 \hline
 160 \\
 + 180 \\
 \hline
 1800
 \end{array}$$



Chocolate = Surface area = 900 cm²
 Ice cream = Volume = 1800 cm³

$$\begin{array}{r}
 15 \\
 \times 12 \\
 \hline
 180
 \end{array}$$



$$\begin{array}{r}
 15 \times 10 = 150 \times 2 = 300 \\
 15 \times 12 = 180 \times 2 = 360 \\
 \hline
 + 240 \\
 \hline
 900
 \end{array}$$