

Concept Development for Comparing Numbers
How many more? How many less?

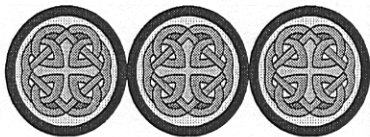
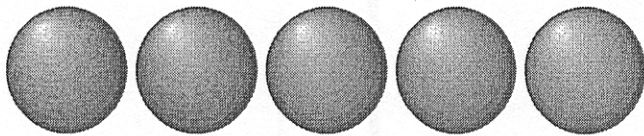
Answer Orally:

3 is as many as 3

Compare to 3, 4 is _____

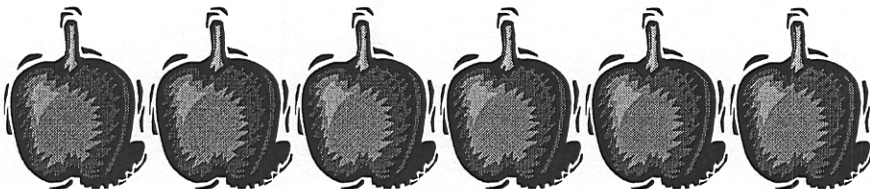
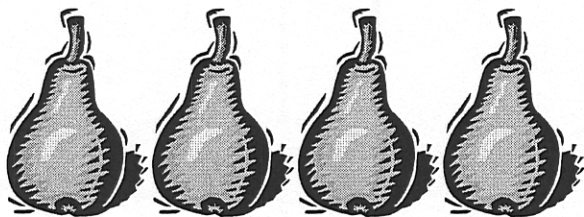
Compare to 6, 5 is _____

Fill in the blanks:



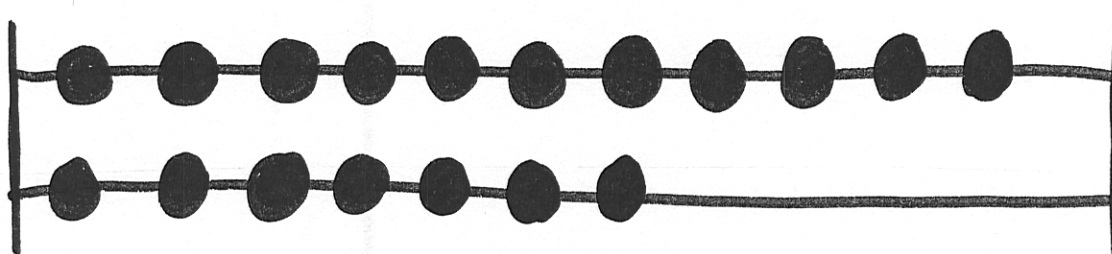
Compare to 3, 5 is _____ *more*.

Compare to 5, 3 is _____ *less*.



Compare to 6, 4 is _____ *less*.

Fill in the blanks:



There are () *more* beads on the upper bar than the lower bar.

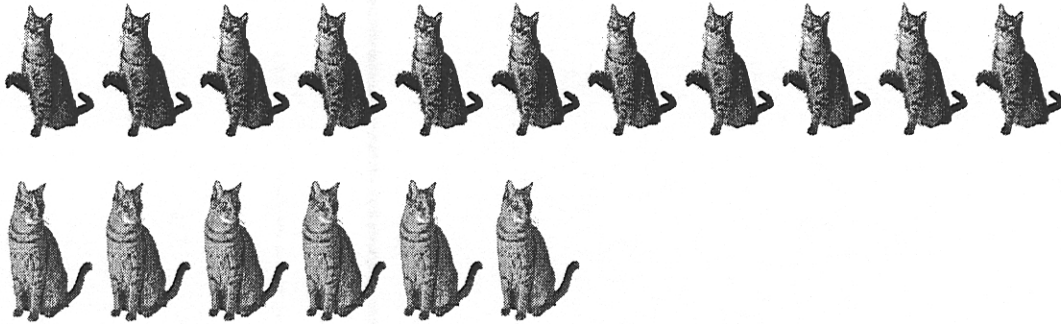
There are () *fewer* beads on the lower bar than the upper bar.

There are () *more* _____ than the _____.

There are () *fewer* _____ than the _____.

Example problem:

Stan's class has 11 black cats and 6 white cats. How many *more* black cats are there than white cats? How many *fewer* white cats are there than black cats?



$$11 - 6 = 5 \text{ (cats)}$$

Answer orally:

There are 5 *more* black cats than white cats.
There are 5 *fewer* white cats than black cats.

Independent Practice:

Christina drew 12 flags. Farmann drew 3 flags. How many *fewer* flags did Farmann draw?

Christina: 

Farmann: 

Number sentence _____

Answer _____

** Teach Question, Data, Plan, Answer, Check (QDPAX) format with this lesson.

Exercises

1. Dahlia and Karina tasted soccerballs in PE. Dahlia tasted 17 soccerballs. Karina tasted 7 soccerballs. How many *more* soccerballs did Dahlia taste than Karina? How many *less/fewer* soccerballs did Karina taste than Dahlia?

- 2a. Mrs. Wilson's class has 15 boys and 5 girls. How many *more* boys are there than girls?
(What would be another way to ask this question?)

- 2b. In 3rd grade at Slater school there are 35 girls and 30 boys. How many *more* girls are there than boys?
(What would be another way to ask this question?)

- 3a. Antonio and Gustavo kicked soccer goals during recess. Gustavo kicked 43 goals and Antonio kicked 3 goals. How many *more* goals did Gustavo kick than Antonio?

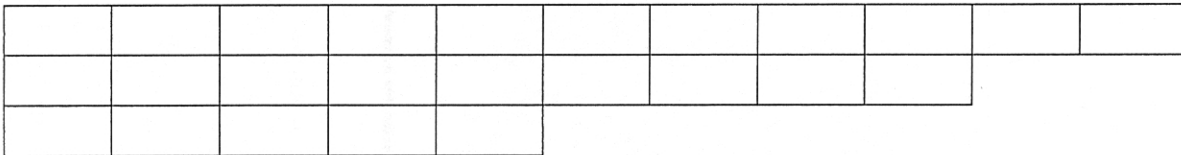
- 3b. David and Terrence shot baskets during recess. David made 29 baskets. Terrence made 20 baskets. How many *more* baskets did David make than Terrence?
 - Elena and Emilio made 60 baskets during recess. Elena made 75% of the total baskets. How many *more* baskets than Emilio did she make?

- 4a. Edgar and Luis were sharpening pencils. Edgar sharpened 38 pencils. Luis sharpened 8 pencils. How many *less/fewer* pencils did Luis sharpen than Edgar?
- Joey ate $2\frac{1}{3}$ pies. Tamara ate $1\frac{1}{6}$. How many *less* pie did Tamara eat?
- 4b. Rachel ate 57 grapes. Kat ate 50 grapes. How many *less/fewer* grapes did Kat eat?
- Tommy and Sophia ate 120 grapes. Tommy ate $\frac{1}{3}$ of them. How many *less* grapes did Tommy eat?
5. There are 26 parks in Mountain View. When Dr. Smith was a girl there were only 4 parks. How many *more* parks are there now than before?
- There are 80,000 homes in Mt. View. This is 800 more than when Dr. Smith was a girl. How many *more* homes are there now than before?
6. How many *more* is 41 than 30?
How many *less* is 30 than 41?
- How many *more/greater* is 87 than 50?
How many *less/fewer* is 20 and 36?
- How many *greater* is 80 than 30?
How many *fewer* is 40 than 70?

7. To participate in the Slater school art show, Mr. Adermann's class selected 8 paintings and Mrs. Wilson's class selected 14 paintings. How many *more* paintings did Mrs. Wilson's class select than Mr. Adermann's class?

8. Michelle made 30 paper airplanes yesterday. She made 65 today. How many *less* airplanes did she make yesterday?

9.



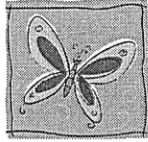


How many *more* blocks does the first row have than the second row?

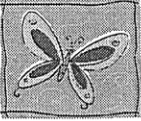

How many *less* blocks does the third row have than the second row?



Using *how many more* or *how many less*, make another comparison between the rows.

10.

		
8	11	20

Compute:

How many *more*  than  ?

How many *more*  than  ?

How many *less*  than  ?

Use manipulatives to fill in the chart and ask comparison questions.

Compute:

How many *more* _____ than _____?

How many *more* _____ than _____?

How many *less* _____ than _____?

11. There are 50 third graders and 75 second graders at Slater Elementary School.
- How many third and second graders *altogether* at Slater?
 - How many *less* third graders than second graders?
12. A goat eats 3 acres of grass each day. A lawnmower mows 65 acres of grass. How many *more* acres of grass does a lawnmower mow?
- A goat eats 2.5 acres of grass a day. A lawn mower mows 65.3 acres of grass a day. How many *more* acres of grass does a lawnmower mow over 7 days?
13. During the first half hour, chess club played 25 games. In the second half hour they played 20 games.
- How many games did they play in the whole hour?
 - How many *more* games did they play in the first half hour than in the second half hour?
- During chess club, 40% of the total games are played in the first half hour. 60 games are played in the second half hour.
 - How many games did they play in the whole hour?
 - How many *more* games did they play in the first half hour than in the second half hour?

14a. Mrs. Wilson's class had 50 boxes of crayons. 20 of them were used. _____? (Ask a question orally and then solve the problem.)

- Mrs. Wilson's class had 50 boxes of crayons. 20% of them were used. _____? (Ask a question orally and then solve the problem.)

14b. Mr. Adermann's class had 70 boxes of markers. 30 of them were dry. _____? (Ask a question orally and then solve the problem.)

- Mr. Adermann's class had 70 boxes of markers. 20% of them were dry. _____? (Ask a question orally and then solve the problem.)

14c. Tamara had 12 pencils. 8 were unsharpened. _____? (Ask a question orally and then solve the problem.)

14d. Crystal had 20 pairs of socks. 8 were dirty. _____? (Ask a question orally and then solve the problem.)

15. In the Slater garden, the students planted 32 rows of carrots and 10 rows of beans in the spring.
- a. Ask a question (orally) so that the problem will need to be solved with *addition*.
 - b. Ask a question (orally) so that the problem will need to be solved with *subtraction*.
- In the Slater garden, the students planted 32 rows of carrots. Each carrot row had 5 plants. They also planted 10 rows of beans. Each bean row had 8 plants.
 - a. Ask questions that compare the numbers of plants in the garden.