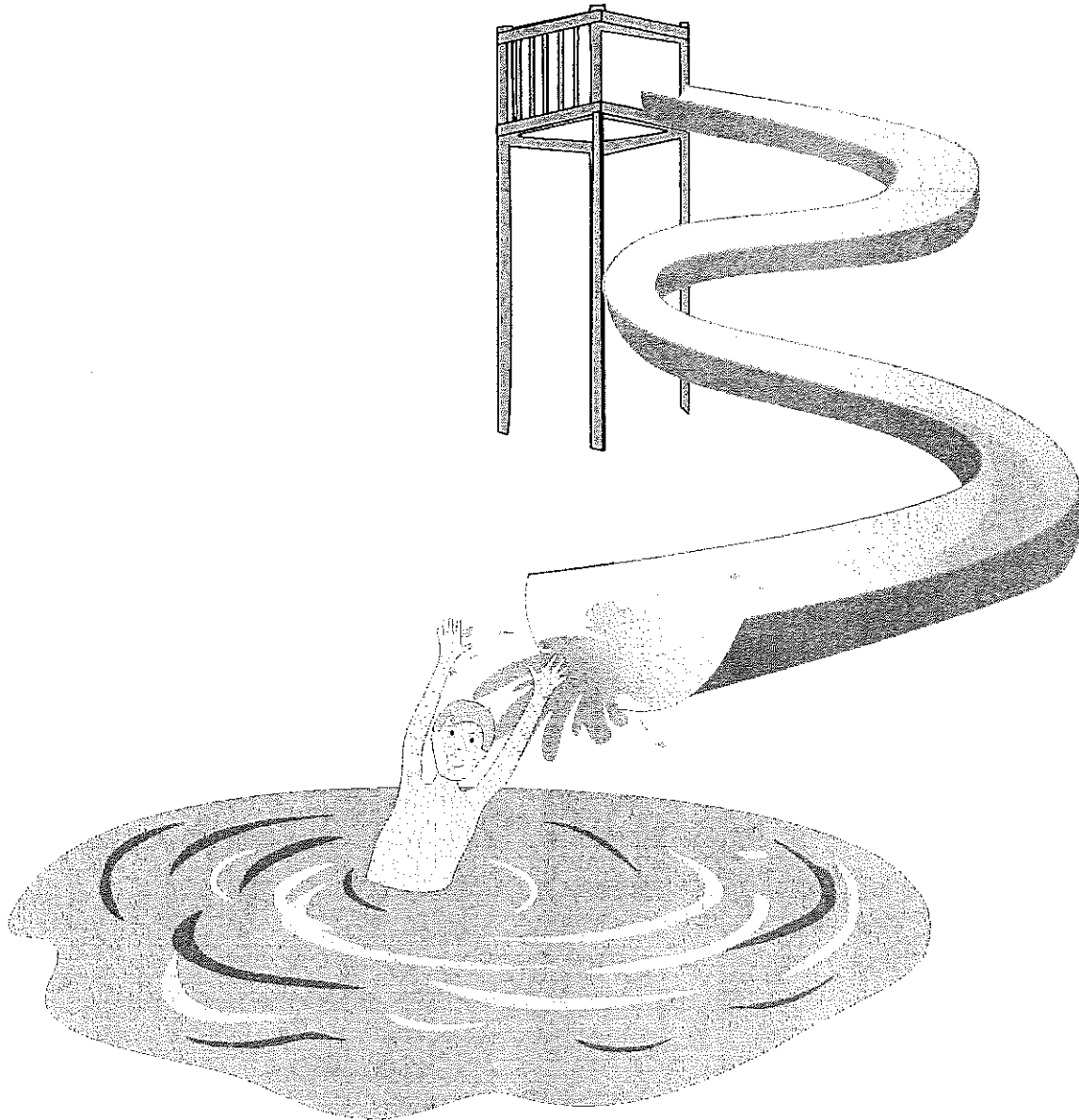


Sliding into 4th Grade!



's

Summer Math Packet

Ordering & writing numbers to the thousands

Use the following numbers and order them from least to greatest.

3,401 1,269 9,212 3,109 2,487 9,721 6,071 1,231

1,432 1,590 2,974 974 1,100 3,999 2,128 871

Write the number

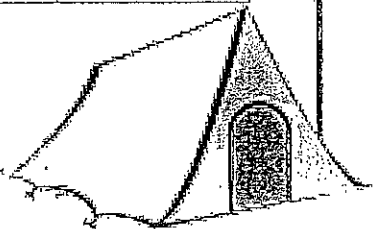
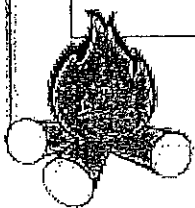
Five thousand, two hundred fifty two	
Eight thousand, nine hundred eighty eight	
One thousand, ten	
Two thousand, ninety nine	
Three thousand, seven hundred two	
Four thousand, eight	
Nine thousand, one hundred one	

Round to the nearest 100

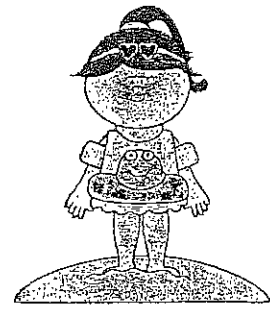
2,399	
8,429	
9,534	
7,987	
1,231	
3,342	
4,755	

Write the words

	5,987
	2,004
	8,953
	7,100
	1,964
	5,003
	9,999



Numbers to the ten thousands



What is the value of the number 8
in the number 18,920? _____

What digit is in the ten thousands
place in the number 23,976? _____

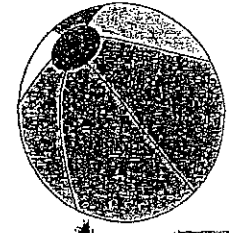
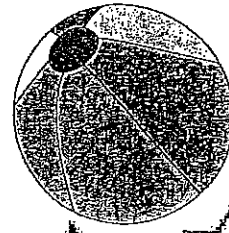
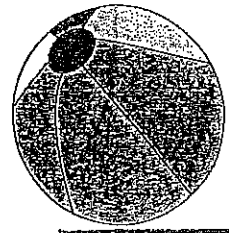
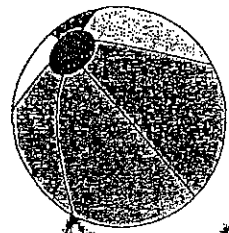
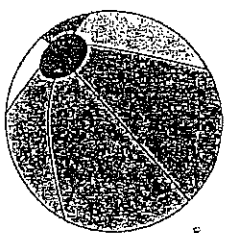
Write the number ten
thousand-twenty two: _____

What digit is in the thousands place
in the number 6,613? _____

What value does the 3 have
in the number 12,934? _____

Write the number eighteen
thousand-one hundred
twelve: _____

Write the number 12,480 in words:



Locating numbers on a number line

Find the number represented by the dot on the number line



The dot is at _____

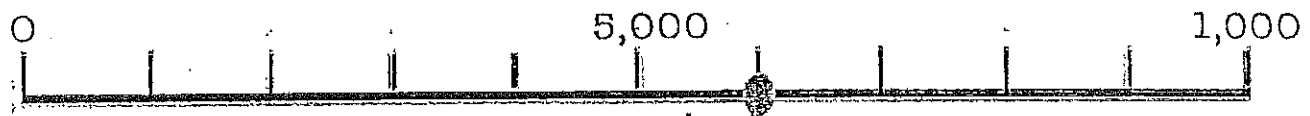


The dot is at _____



The dot is at _____

Solve the following problem.



Nediiir and Sonja are playing a game. Sonja's score is represented by the green dot on the number line. What is Sonja's score? _____

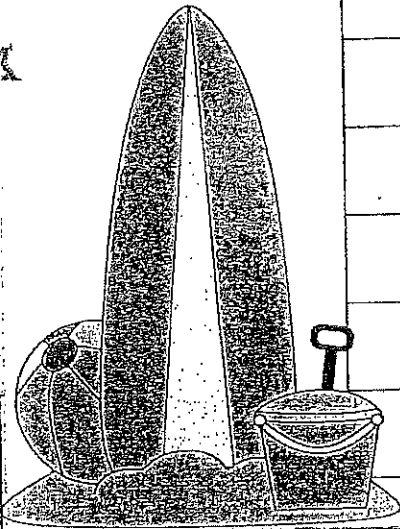
Nadiir's score is 8,000. Would his score be represented to the left or right of Sonja's score? _____

Explain your answer:

Comparing 3-and 4-digit numbers

Place $<$, $>$ or $=$ in the space to make the statement true

	$<$, $>$, OR $=$	
4,130		3,201
6,111		6,222
798		798
7,999		8,001
2,102		2,201
7,512		7,152
871		8,710



Solve the following problems

1. Alexander and Bonnie are driving to the beach. Alexander's trip is 3,004 miles, and Bonnies trip is 2,894 miles. Who has the longer trip?

2. Sophia and Hetop are counting their steps as they walk to the pool. Sophia says she can make it in 1,789 steps. Hetop says he can make it in 1,987 steps. Compare the steps using $<$, $>$, or $=$.

3. Johnny and Shay are baking cookies. Johnny's cookies bake in 720 seconds and Shay's cookies bake in 1,080 seconds. Whose cookies will be done the fastest? -----



Addition

Add:

$$\begin{array}{r}
 1 \ | \ 7 \ | \ 4 \\
 + \quad \ | \ 1 \ | \ 8 \\
 \hline
 \quad \ | \ \quad \ | \ \quad \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1 \ | \ 5 \ | \ 7 \\
 + \quad \ | \ 6 \ | \ 2 \\
 \hline
 \quad \ | \ \quad \ | \ \quad \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 7 \ | \ 2 \ | \ 1 \\
 + \ 1 \ | \ 4 \ | \ 2 \\
 \hline
 \quad \ | \ \quad \ | \ \quad \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 6 \ | \ 9 \ | \ 3 \\
 + \ 1 \ | \ 2 \ | \ 0 \\
 \hline
 \quad \ | \ \quad \ | \ \quad \\
 \hline
 \end{array}$$

Add. Check for reasonableness:

$$\begin{array}{r}
 3 \ | \ 2 \ | \ 1 \\
 + \quad \ | \ 3 \ | \ 1 \\
 \hline
 \quad \ | \ \quad \ | \ \quad \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4 \ | \ 8 \ | \ 6 \\
 + \ 2 \ | \ 1 \ | \ 3 \\
 \hline
 \quad \ | \ \quad \ | \ \quad \\
 \hline
 \end{array}$$

Estimate:

$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

Estimate:

$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

7. Mary's farm has 468 apple trees and 224 pear trees. To the nearest ten, how many apple and pear trees are there altogether?

Show your work:

Subtraction

Subtract:

$$1. \quad \begin{array}{r} 252 \\ - 122 \\ \hline \end{array}$$

$$2. \quad \begin{array}{r} 791 \\ - 531 \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 986 \\ - 723 \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 528 \\ - 319 \\ \hline \end{array}$$

$$5. \quad \begin{array}{r} 617 \\ - 308 \\ \hline \end{array}$$

$$6. \quad \begin{array}{r} 327 \\ - 129 \\ \hline \end{array}$$

Subtract. Use addition to check your answer:

$$7. \quad \begin{array}{r} 687 \\ - 353 \\ \hline \end{array}$$

$$8. \quad \begin{array}{r} 177 \\ - 94 \\ \hline \end{array}$$

$$9. \quad \begin{array}{r} 843 \\ - 187 \\ \hline \end{array}$$

Check: _____

Check: _____

Check: _____

Use addition to find each unknown:

$$10. \quad \begin{array}{r|l|l} 6 & 1 & \square \\ - & 4 & 1 & 7 \\ \hline \triangle & 0 & 2 \end{array}$$

$$11. \quad \begin{array}{r|l|l} \square & 9 & 9 \\ - & 1 & \triangle & 0 \\ \hline 2 & 1 & 9 \end{array}$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

Multiplication

Multiply:

1. $6 \times 2 = \underline{\quad}$

2. $6 \times 10 = \underline{\quad}$

3. $7 \times 0 = \underline{\quad}$

4. $7 \times 2 = \underline{\quad}$

5. $7 \times 6 = \underline{\quad}$

6. $6 \times 4 = \underline{\quad}$

7. $6 \times 6 = \underline{\quad}$

8. $6 \times 1 = \underline{\quad}$

9. $7 \times 9 = \underline{\quad}$

10. $7 \times 8 = \underline{\quad}$

11. $6 \times 9 = \underline{\quad}$

12. $7 \times 7 = \underline{\quad}$

13. $7 \times 1 = \underline{\quad}$

14. $7 \times 3 = \underline{\quad}$

15. $6 \times 7 = \underline{\quad}$

16. $6 \times 3 = \underline{\quad}$

17. $6 \times 5 = \underline{\quad}$

18. $7 \times 4 = \underline{\quad}$

19. $6 \times 8 = \underline{\quad}$

20. $7 \times 5 = \underline{\quad}$

21. $6 \times 0 = \underline{\quad}$

22. $7 \times 10 = \underline{\quad}$

Write a multiplication sentence with a symbol for the unknown. Then solve:

23. If Susie has 5 ten dollar bills, does she have enough money to buy 8 bags of gerbil food that cost \$6 each?

24. A museum has a display of 7 kinds of birds. There are 9 of each kind of bird. How many birds are on display?

Multiplication

Multiply:

1. $8 \times 2 = \underline{\quad}$

2. $9 \times 0 = \underline{\quad}$

3. $8 \times 4 = \underline{\quad}$

4. $9 \times 6 = \underline{\quad}$

5. $8 \times 10 = \underline{\quad}$

6. $8 \times 8 = \underline{\quad}$

7. $8 \times 5 = \underline{\quad}$

8. $8 \times 1 = \underline{\quad}$

9. $9 \times 3 = \underline{\quad}$

10. $9 \times 1 = \underline{\quad}$

11. $9 \times 9 = \underline{\quad}$

12. $9 \times 10 = \underline{\quad}$

13. $9 \times 5 = \underline{\quad}$

14. $8 \times 6 = \underline{\quad}$

15. $9 \times 4 = \underline{\quad}$

16. $8 \times 9 = \underline{\quad}$

17. $9 \times 2 = \underline{\quad}$

18. $8 \times 0 = \underline{\quad}$

19. $8 \times 3 = \underline{\quad}$

20. $9 \times 7 = \underline{\quad}$

21. $8 \times 7 = \underline{\quad}$

22. $9 \times 8 = \underline{\quad}$

Write a multiplication sentence with a symbol for the unknown. Then solve:

23. There are six whales at Sea World. Each whale does 6 shows each week. How many whale shows are there each week?

24. Sally works 6 hours a day and earns \$7 per hour. Her friend John works 7 hours per day and earns \$6 per hour. If they both work Monday through Friday, who earns more money? Who works longer?

Multiplication

Multiply:

- | | | | | | |
|-----|------------------------|-----|------------------------|-----|------------------------|
| 1. | $11 \times 5 =$ _____ | 2. | $12 \times 0 =$ _____ | 3. | $11 \times 4 =$ _____ |
| 4. | $12 \times 5 =$ _____ | 5. | $12 \times 7 =$ _____ | 6. | $11 \times 9 =$ _____ |
| 7. | $11 \times 8 =$ _____ | 8. | $11 \times 1 =$ _____ | 9. | $12 \times 1 =$ _____ |
| 10. | $11 \times 12 =$ _____ | 11. | $12 \times 6 =$ _____ | 12. | $11 \times 7 =$ _____ |
| 13. | $11 \times 2 =$ _____ | 14. | $12 \times 10 =$ _____ | 15. | $12 \times 8 =$ _____ |
| 16. | $12 \times 4 =$ _____ | 17. | $11 \times 6 =$ _____ | 18. | $12 \times 2 =$ _____ |
| 19. | $11 \times 10 =$ _____ | 20. | $11 \times 0 =$ _____ | 21. | $12 \times 9 =$ _____ |
| 22. | $11 \times 3 =$ _____ | 23. | $12 \times 3 =$ _____ | 24. | $11 \times 11 =$ _____ |
| 25. | $12 \times 11 =$ _____ | 26. | $12 \times 12 =$ _____ | | |

Write a multiplication sentence with a symbol for the unknown. Then solve:

27. Social Studies books are in 5 piles. Each pile has 11 books. Are there enough books for 2 classes of 24 students?

28. Mrs. Smith took 12 boxes of apples to the farm stand to sell. Each box has 9 apples inside. How many apples did Mrs. Smith take to sell at the farm stand?

Division

1. $20 \div 2 = \underline{\quad}$

2. $30 \div 5 = \underline{\quad}$

3. $4 \div 2 = \underline{\quad}$

4. $5 \div 5 = \underline{\quad}$

5. $2 \div 2 = \underline{\quad}$

6. $21 \div 3 = \underline{\quad}$

7. $35 \div 5 = \underline{\quad}$

8. $12 \div 2 = \underline{\quad}$

9. $6 \div 3 = \underline{\quad}$

10. $6 \div 2 = \underline{\quad}$

11. $3 \div 3 = \underline{\quad}$

12. $16 \div 2 = \underline{\quad}$

13. $27 \div 3 = \underline{\quad}$

14. $10 \div 5 = \underline{\quad}$

15. $28 \div 4 = \underline{\quad}$

16. $8 \div 2 = \underline{\quad}$

17. $12 \div 3 = \underline{\quad}$

18. $50 \div 5 = \underline{\quad}$

19. $40 \div 5 = \underline{\quad}$

20. $18 \div 2 = \underline{\quad}$

21. $24 \div 4 = \underline{\quad}$

22. $9 \div 3 = \underline{\quad}$

23. $32 \div 4 = \underline{\quad}$

24. $24 \div 3 = \underline{\quad}$

25. $14 \div 2 = \underline{\quad}$

26. $45 \div 5 = \underline{\quad}$

27. $4 \div 4 = \underline{\quad}$

28. $18 \div 3 = \underline{\quad}$

29. $60 \div 6 = \underline{\quad}$

30. $10 \div 2 = \underline{\quad}$

31. $25 \div 5 = \underline{\quad}$

32. $15 \div 3 = \underline{\quad}$

33. $42 \div 6 = \underline{\quad}$

34. $36 \div 4 = \underline{\quad}$

35. $8 \div 4 = \underline{\quad}$

36. $20 \div 5 = \underline{\quad}$

37. $15 \div 5 = \underline{\quad}$

38. $30 \div 3 = \underline{\quad}$

39. $54 \div 6 = \underline{\quad}$

40. $20 \div 4 = \underline{\quad}$

41. $16 \div 4 = \underline{\quad}$

42. $36 \div 6 = \underline{\quad}$

43. $12 \div 4 = \underline{\quad}$

44. $48 \div 6 = \underline{\quad}$

45. $40 \div 4 = \underline{\quad}$

46. $18 \div 6 = \underline{\quad}$

47. $30 \div 6 = \underline{\quad}$

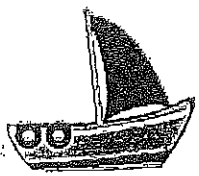
48. $24 \div 6 = \underline{\quad}$

49. $6 \div 6 = \underline{\quad}$

50. $12 \div 6 = \underline{\quad}$

Division

1. $80 \div 10 =$ _____
2. $32 \div 8 =$ _____
3. $50 \div 10 =$ _____
4. $49 \div 7 =$ _____
5. $90 \div 10 =$ _____
6. $56 \div 7 =$ _____
7. $40 \div 8 =$ _____
8. $72 \div 8 =$ _____
9. $28 \div 7 =$ _____
10. $40 \div 10 =$ _____
11. $20 \div 10 =$ _____
12. $45 \div 9 =$ _____
13. $21 \div 7 =$ _____
14. $63 \div 7 =$ _____
15. $60 \div 10 =$ _____
16. $70 \div 10 =$ _____
17. $36 \div 9 =$ _____
18. $99 \div 11 =$ _____
19. $30 \div 10 =$ _____
20. $10 \div 10 =$ _____
21. $100 \div 10 =$ _____
22. $56 \div 8 =$ _____
23. $54 \div 9 =$ _____
24. $110 \div 11 =$ _____
25. $35 \div 7 =$ _____
26. $42 \div 7 =$ _____
27. $77 \div 11 =$ _____
28. $14 \div 7 =$ _____
29. $7 \div 7 =$ _____
30. $70 \div 7 =$ _____
31. $24 \div 8 =$ _____
32. $64 \div 8 =$ _____
33. $88 \div 11 =$ _____
34. $80 \div 8 =$ _____
35. $72 \div 9 =$ _____
36. $16 \div 8 =$ _____
37. $8 \div 8 =$ _____
38. $48 \div 8 =$ _____
39. $18 \div 9 =$ _____
40. $27 \div 9 =$ _____
41. $63 \div 9 =$ _____
42. $66 \div 11 =$ _____
43. $90 \div 9 =$ _____
44. $44 \div 11 =$ _____
45. $121 \div 11 =$ _____
46. $55 \div 11 =$ _____
47. $9 \div 9 =$ _____
48. $33 \div 11 =$ _____
49. $132 \div 11 =$ _____
50. $81 \div 9 =$ _____
51. $132 \div 11 =$ _____
52. $22 \div 11 =$ _____
53. $11 \div 11 =$ _____
54. $84 \div 12 =$ _____
55. $144 \div 12 =$ _____
56. $120 \div 12 =$ _____
57. $108 \div 12 =$ _____
58. $96 \div 12 =$ _____
59. $72 \div 12 =$ _____
60. $36 \div 12 =$ _____
61. $48 \div 12 =$ _____
62. $24 \div 12 =$ _____
63. $60 \div 12 =$ _____
64. $12 \div 12 =$ _____



Fractions Greater than One



Name the shaded parts of the fraction greater than one.

How many pieces are shaded? _____

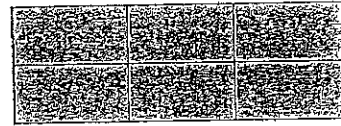
How many equal parts make one whole? _____

Fraction: Shaded parts _____

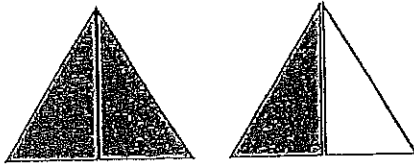
Equal parts _____

There is _____ Whole and _____ left over

Mixed number: _____



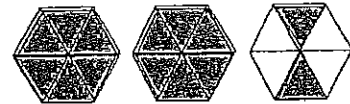
Write the mixed number for the following shaded fractions.



Fraction: _____



Fraction: _____



Fraction: _____



Solve.



Lilianna used $\frac{8}{5}$ of the markers in her kit. Write the number of markers Lilianna used in a mixed number: _____

Shay played $\frac{7}{2}$ of the four square games he had this summer. What mixed number did Shay play? _____

$\frac{12}{5} =$ _____

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

$\frac{9}{6} =$ _____

$\frac{10}{3} =$ _____

$\frac{11}{4} =$ _____

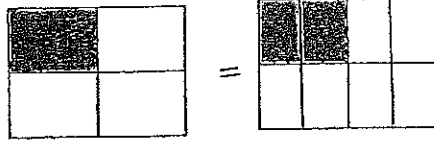
Kat used $\frac{9}{4}$ of the soda her mom bought. Write the number of sodas Kat used in a mixed number: _____

There were $\frac{10}{6}$ of the pizzas eaten. What mixed number of pizza was eaten? _____

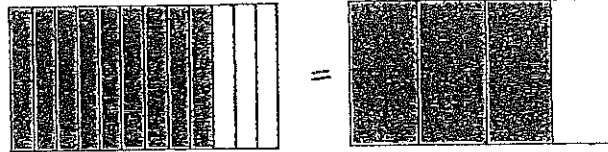
Equivalent Fractions

Use the models to write equivalent fractions.

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

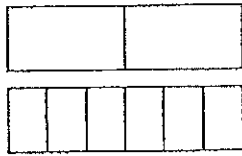


$$\frac{9}{12} = \frac{\quad}{4}$$

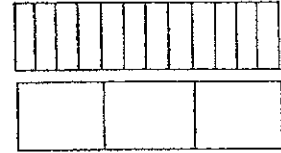


Shade the models to show equivalent fractions, then write the equivalent.

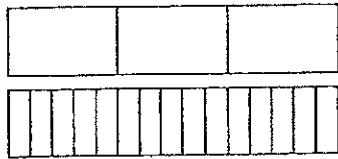
$$\frac{1}{2} = \frac{\quad}{6}$$



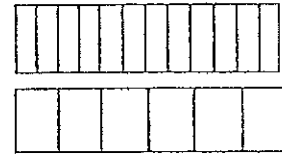
$$\frac{4}{12} = \frac{\quad}{3}$$



$$\frac{1}{3} = \frac{\quad}{15}$$



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

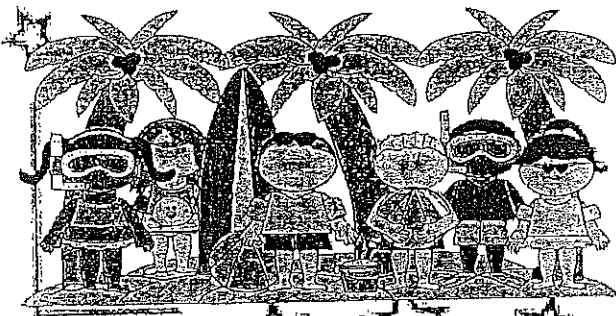


Draw your own models and write the equivalent fraction.

$$\frac{1}{5} = \frac{\quad}{20}$$

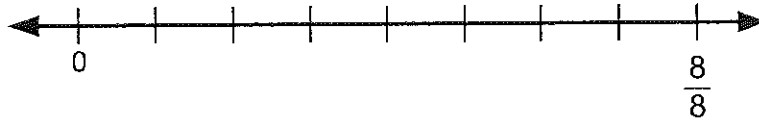
$$\frac{3}{4} = \frac{\quad}{12}$$

$$\frac{3}{18} = \frac{\quad}{6}$$

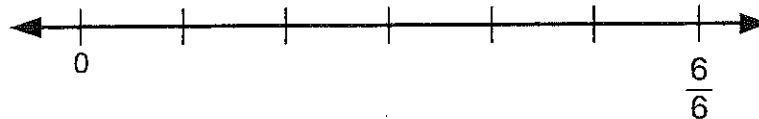


Fractions

1. There are 8 students in gymnastics class. 6 of the students are girls. Label the number line to show the number of students that are girls:

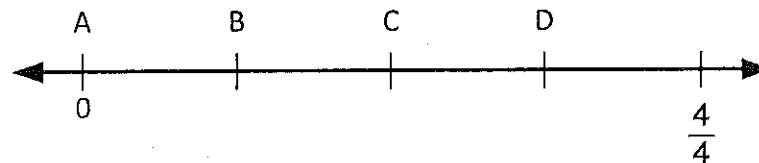


2. Henry has 6 coins. 3 are nickels, one is a dime and the rest are half-dollars. Show the fraction of coins that are half-dollars:

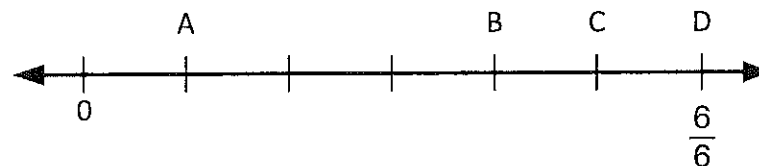


Write the point that represents each fraction:

3. $\frac{2}{4}$ is represented by point _____

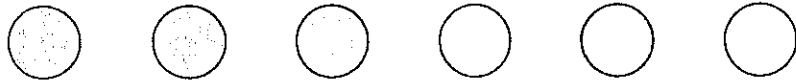


4. $\frac{4}{6}$ is represented by point _____

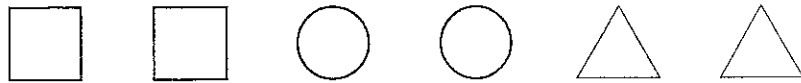


Fractions

1. What fraction of the set of circles are shaded?

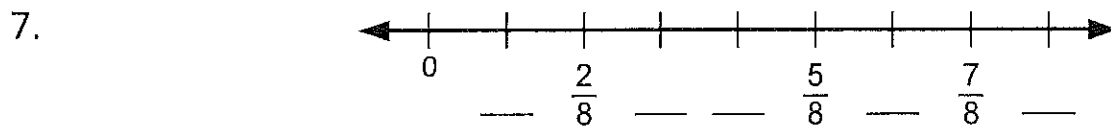
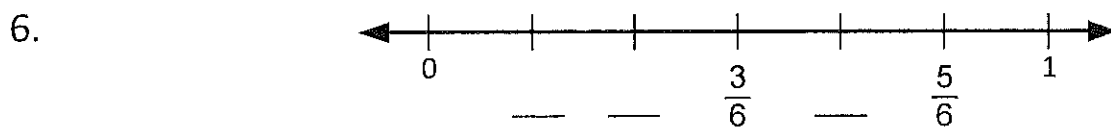
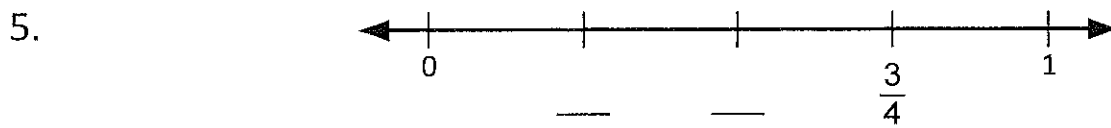


2. What fraction of the set of shapes are squares?



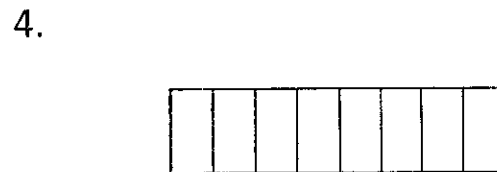
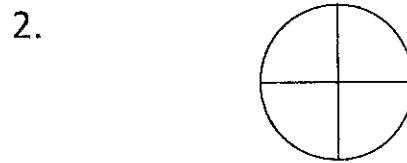
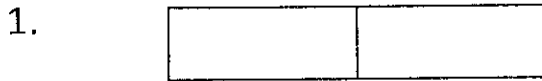
3. Jonah has 2 quarters, 2 dimes, 3 nickels and 1 penny. What fraction of Jonah's coins are nickels? _____

Label each number line:

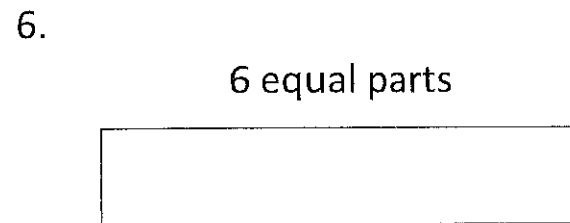
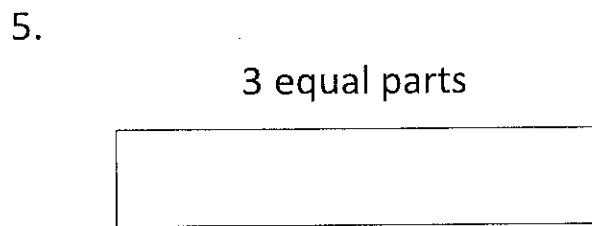


Fractions

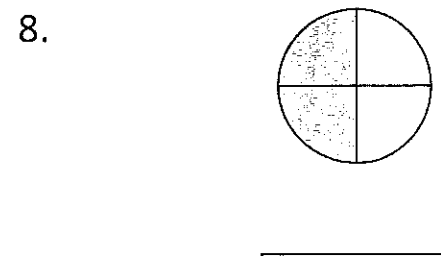
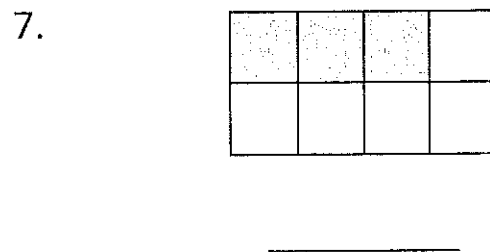
Label the unit fraction for each:



Divide the whole into equal parts. Then label each part with its unit fraction:



Write the fraction for the shaded part of each:



9. A loaf of bread is cut into 6 equal slices. What fraction is left after 3 slices are used to make toast? _____

Geometry

1. How are all triangles the same?

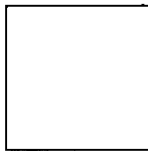
2. How can triangles be different?

Name the quadrilateral:

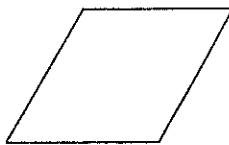
3.



4.



5.



6. How are quadrilaterals different from other figures?

7. How are quadrilaterals similar to each other?

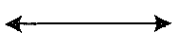
Geometry

1. Are all polygons quadrilaterals? Explain:

2. There are 4 picture frames on the table. One is a rhombus; one is a rectangle; two are squares. How many sides are there altogether? _____


Write each word from the word bank by its example:

angle	octagon	pentagon
hexagon	vertex	square
parallelogram	rhombus	quadrilateral
parallel	line	line segment

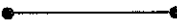
3. 


4. 

5. 

6. 

7. 

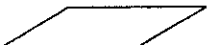
8. 

9. 

10. 

11. 

12. 

13. 

14. 
