Dear Incoming 6th Grade Students,

The attached packet is intended to help you review and remember the concepts you learned in 5th grade as well as practice your multiplication facts. In 6th grade, we will build on all of these concepts, so it is important that you have a good foundation.

Please complete this packet over the summer. It is due the first day of school.

I look forward to being your teacher and getting to know you better!

Best wishes for a blessed summer!

In Christ,

Mrs. Dunbar

Name: _____ Date: _____

Write each number in standard form.

three million, seventy-six thousand, two hundred fourteen

_____

seven million, four hundred fifty thousand, nine hundred eighty-six

_____

Write each number in word form.

9,380,170 _____

_____

5,872,649 _____

_____

Complete each expanded form.

4,623,180 = _____ + 623,000 + 180

_____ + 10,000 + 600 + 8 = 210,608

Write each number in expanded form.

4,578,312 = _____

9,400,176 = _____

Multiply.

9 × 100 = _____

81 × 400 = _____

58 × 3,000 = _____

331 × 80 = _____

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Find each product. Show your work.

672 and 300

3,102 and 1,000

Multiply. Show your work.

67×10^2

429×10^2

872×10^3

$5,462 \times 10^3$

Divide. Show your work.

$9,200 \div 100$

$64,000 \div 4,000$

$800 \div 200$

$1,740 \div 60$

$1,400 \div 100$

$270,000 \div 9,000$

Multiply. Show your work. Estimate to check that each answer is reasonable.

735 × 48 = _____

2,054 × 66 = _____

Divide. Show your work. Estimate to check that each answer is reasonable.

864 ÷ 36 = _____

8,036 ÷ 57 = _____

Use order of operations to solve each expression.

54 ÷ 3 × 2 = _____

3 + 4 × 8 = _____

96 − 24 ÷ 2 × 7 + 5 = _____

20 × (24 − 18) = _____

18 + (4 + 16) × 7 = _____

(72 + 18) ÷ (3 × 2) = _____

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Express each division expression as a fraction or mixed number in simplest form.

$6 \div 8 =$ _____ $10 \div 3 =$ _____

Write each fraction as a division expression.

$\frac{4}{11} =$ _____ ÷ _____ $\frac{6}{7} =$ _____ ÷ _____

Add or subtract. Express each sum or difference in simplest form.

$\frac{1}{2} + \frac{3}{7}$ $\frac{1}{6} + \frac{3}{10}$

$\frac{7}{8} - \frac{1}{2}$ $\frac{7}{9} - \frac{1}{4}$

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Use benchmarks to estimate each sum or difference.

$\frac{4}{9} - \frac{3}{7}$

$\frac{7}{9} + \frac{4}{7} + \frac{1}{6}$

Add. Express each answer as a mixed number in simplest form.

$7 + 2\frac{5}{6}$

$3\frac{3}{8} + 2\frac{1}{4}$

$6\frac{1}{3} + 4\frac{3}{4}$

$2\frac{1}{6} + 3\frac{9}{10}$

Subtract. Express each answer as a mixed number in simplest form.

$7\frac{1}{3} - 2$

$4\frac{1}{2} - 1\frac{1}{4}$

$6\frac{4}{5} - 5\frac{3}{4}$

$5\frac{1}{6} - 3\frac{3}{10}$

$5 - 2\frac{3}{8}$

$12 - 7\frac{5}{10}$

~~Use benchmarks to estimate each sum or difference.~~

$4\frac{3}{5} + 2\frac{3}{8}$

$8\frac{11}{12} - 2\frac{11}{20}$

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Name _____ Date _____

CHAPTER REVIEW

Multiply. Express each product in simplest form.

$\frac{2}{3} \times 24$

$\frac{5}{8} \times 32$

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

$\frac{7}{4} \times 28$

Multiply. Express each product in simplest form.

$\frac{1}{2} \times \frac{4}{7}$

$\frac{3}{8} \times \frac{2}{5}$

$\frac{4}{5} \times \frac{7}{8}$

$\frac{2}{3} \times \frac{9}{10}$

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Multiply. Express each product in simplest form.

$\frac{8}{15} \times \frac{5}{4}$

$\frac{10}{3} \times \frac{12}{7}$

$\frac{16}{9} \times \frac{3}{2}$

$\frac{18}{4} \times \frac{28}{3}$

$5\frac{1}{4} \times 8$

$14 \times 3\frac{5}{6}$

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

$3\frac{5}{6} \times 4$

Divide. Express each quotient in simplest form.

$\frac{1}{5} \div 6$

$\frac{1}{6} \div 3$

$4 \div \frac{1}{6}$

$14 \div \frac{1}{8}$

Solve. Draw a bar model to help you.

A store sells T-shirts. $\frac{1}{4}$ of the T-shirts are pink, $\frac{1}{2}$ of the remaining T-shirts are white, and the rest are purple. What fraction of the T-shirts are purple?

Fill in each blank.

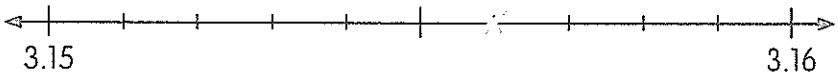
In 5.139, the digit _____ is in the thousandths place.

3 tenths 8 hundredths 6 thousandths written as a decimal is _____.

$17.208 = 17 + 0.2 + \_\_\_\_\_$

$= 17\frac{208}{\square}$

The decimal marked by ⋆ on the number line is _____.



8 hundredths = _____ thousandths

2 hundredths 5 thousandths = _____

Write each fraction as a decimal.

56 thousandths = _____

$\frac{14}{1{,}000} =$ _____

$\frac{516}{1{,}000} =$ _____

$3\frac{77}{1{,}000} =$ _____

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Order the decimals from least to greatest.

6.018, 6.15, 3.978 _____

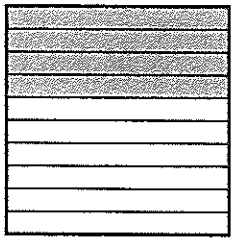
Round to the nearest hundredth.

0.675 _____

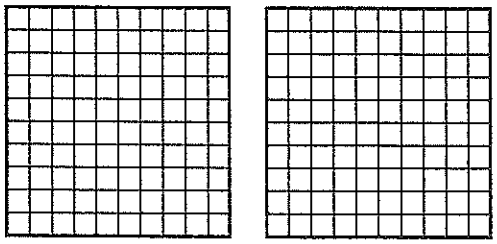
5.099 _____

35.214 _____

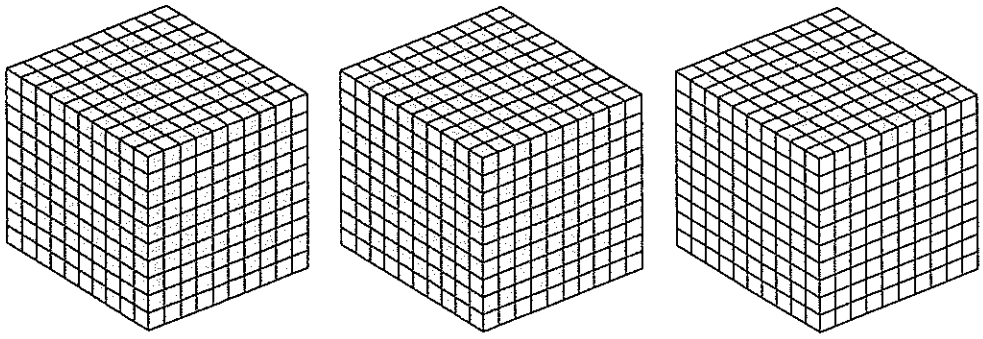
Rewrite each decimal as a fraction or mixed number in simplest form.



0.4 = _____



1.11 = _____



2.085 = _____

Rewrite each decimal as a fraction or mixed number in simplest form.

6.5 _____

9.06 _____

7.10 _____

3.005 _____

0.125 _____

5.258 _____

Rewrite each fraction or mixed number as a decimal.

$\frac{67}{200}$ = _____

$\frac{19}{40}$ = _____

$7\frac{133}{250}$ = _____

$11\frac{97}{500}$ = _____

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Name: _____ Date: _____

CHAPTER REVIEW

Add.

3 . 4	3 . 6 2	9 . 8 1
+ 6 . 5	+ 5 . 0 4	+ 8 . 7 9

Find each sum.

34.8 and 2.66

3.7 and 8.9

9.36 and 1.98

8.57 and 10.49

Add.

1.7 + 0.6 = _____

0.45 + 2.7 = _____

0.25 + 0.68 = _____

4.08 + 2.36 = _____

Subtract.

$$\begin{array}{r} 5.3 \\ -\ 2.1 \\ \hline \end{array} \qquad \begin{array}{r} 30.38 \\ -\ 12.62 \\ \hline \end{array} \qquad \begin{array}{r} 17.43 \\ -\ \ 4.57 \\ \hline \end{array}$$

Find each difference.

0.6 and 0.28

9.02 and 8.77

7.62 and 3.99

20 and 4.78

Subtract.

4.5 – 2.6 = _____

8 – 2.98 = _____

0.7 – 0.32 = _____

32.4 – 10.84 = _____

Multiply.

$$\begin{array}{r} 2.9 \\ \times \quad 6 \\ \hline \end{array} \qquad \begin{array}{r} 3.21 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 6.07 \\ \times \quad 4 \\ \hline \end{array}$$

Find each product.

$2.85 \times 2 =$ _____

$8 \times 5.96 =$ _____

$42.04 \times 2 =$ _____

$9 \times 0.34 =$ _____

$8.001 \times 10 =$ _____

$2.06 \times 400 =$ _____

$70.5 \times 30 =$ _____

$103.4 \times 70 =$ _____

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Divide.

$2\overline{)8.2}$ $4\overline{)5.8}$ $3\overline{)4.11}$

Find each quotient.

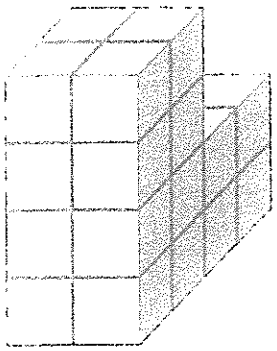
6.36 ÷ 3 = _____ 5.92 ÷ 8 = _____

13.7 ÷ 2 = _____ 5 ÷ 4 = _____

7.5 ÷ 100 = _____ 63.7 ÷ 70 = _____

Name _____ Date _____

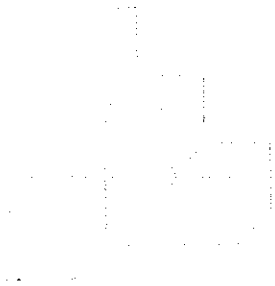
Each solid is made up of unit cubes. Find the volume of each solid.



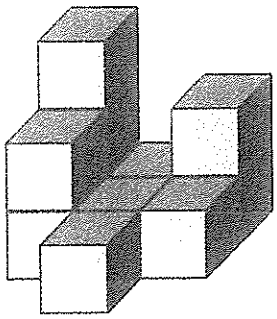
Volume = _____ cubic units

Volume = _____ cubic units

Find the volume of each solid, then compare their volumes.



Solid X



Solid Y

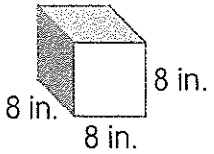
Volume of Solid X = _____ cubic units

Volume of Solid Y = _____ cubic units

Solid _____ has a greater volume.

Find the volume of each rectangular prism.

4



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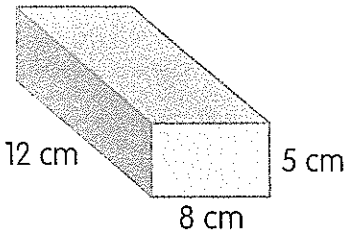

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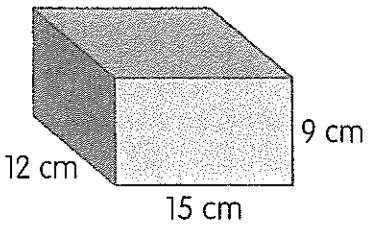

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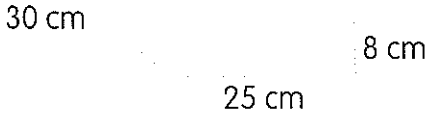


Fill in each blank.

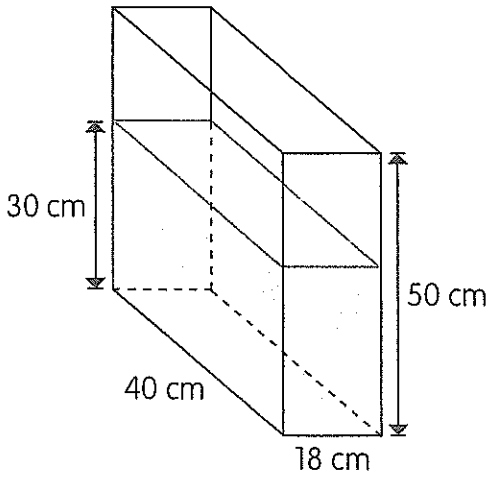
5,007 mL = _____ L _____ mL

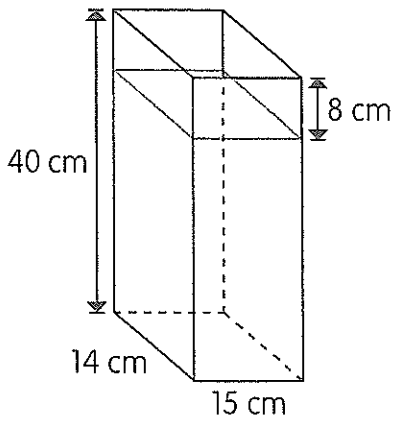
2 L 3 mL = _____ mL

375 mL = _____ cm^3

8,129 cm^3 = _____ L _____ mL

Find the volume of water in each rectangular container.





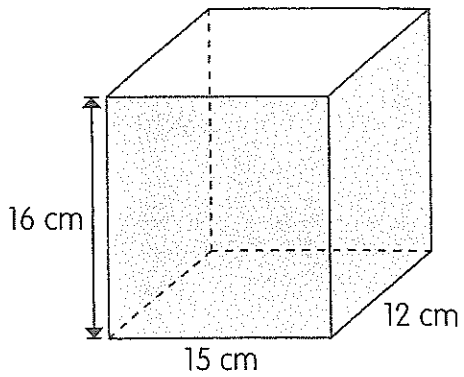
Solve.

14. Find the volume of a cube with edge length of 6 meters.

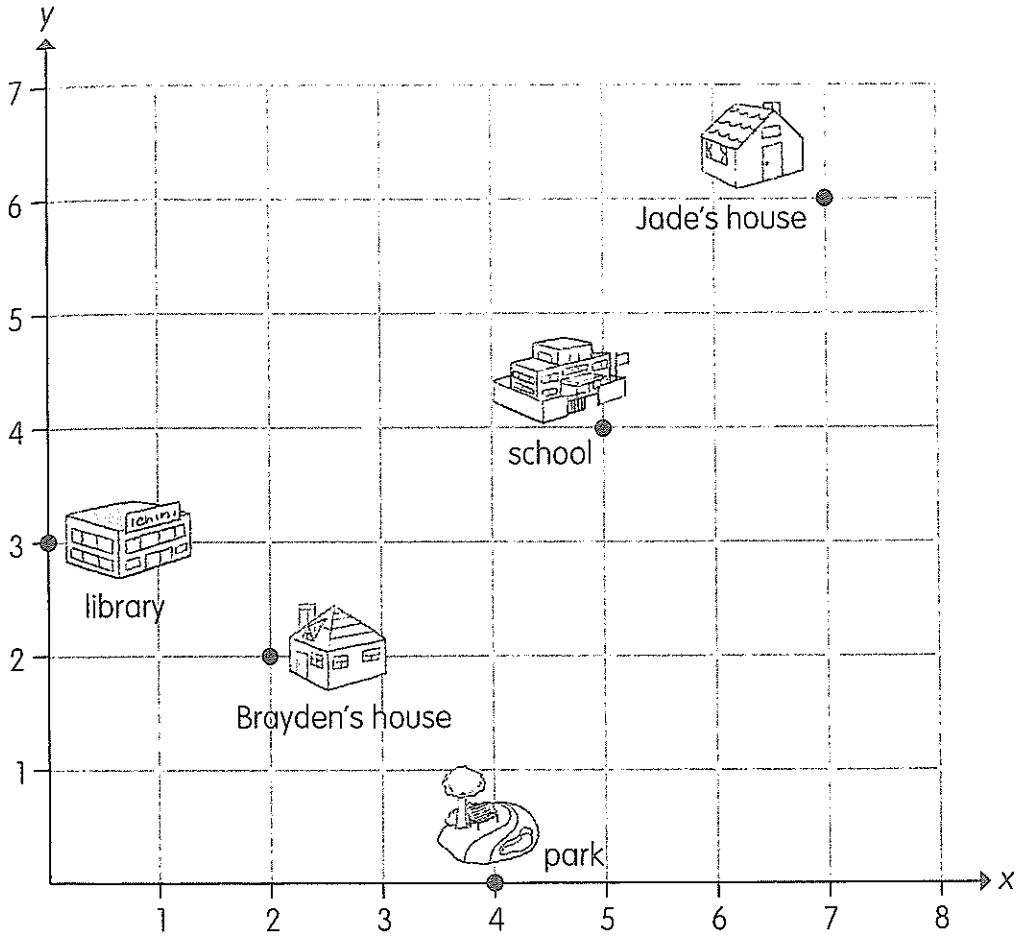
15. Find the volume of a rectangular prism measuring 12 centimeters by 7 centimeters by 9 centimeters.

16. A rectangular container measures 8 feet by 6 feet by 4 feet. Find its volume.

17. The tank is completely filled with water. If $\frac{2}{5}$ of the water from the tank is poured into another container, how much water is left in the tank?



Use the coordinate plane to answer to .



Find the ordered pair that describes each location.

Brayden's house

Jade's house

Library

Park

The post office is located at (3, 6). Plot its location on the grid.

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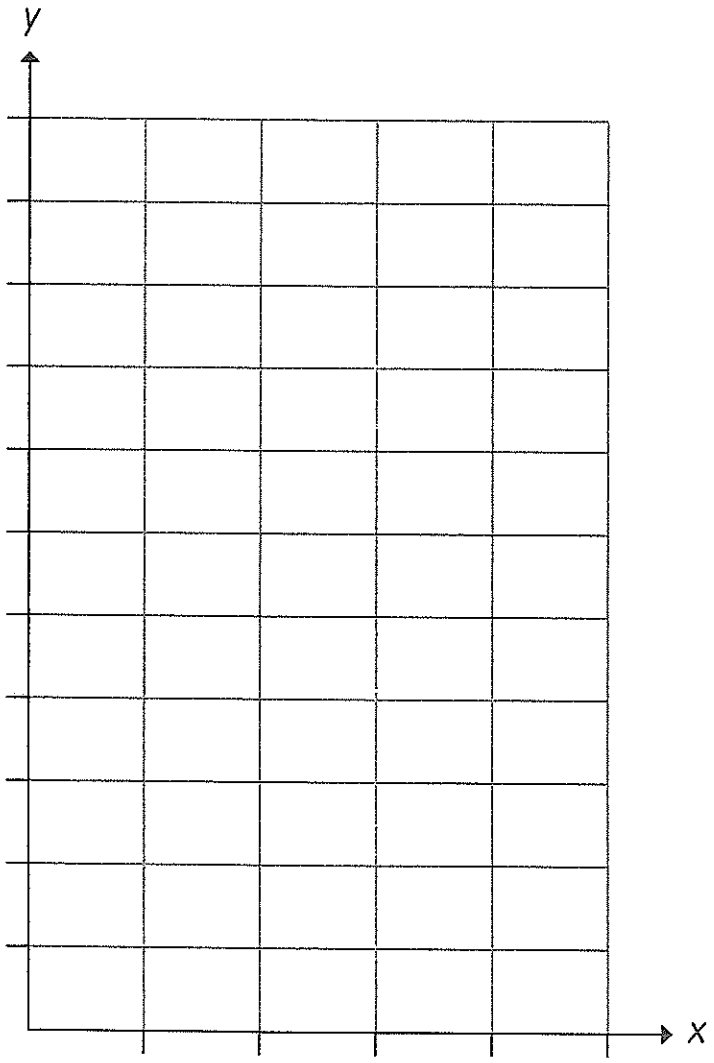
Plot the points (0, 0), (1, 5), (2, 10), (3, 15), and (4, 20) on the coordinate plane. Use intervals of 2 on the vertical scale.
Join the points. Do you get a straight line graph?
Explain why or why not.



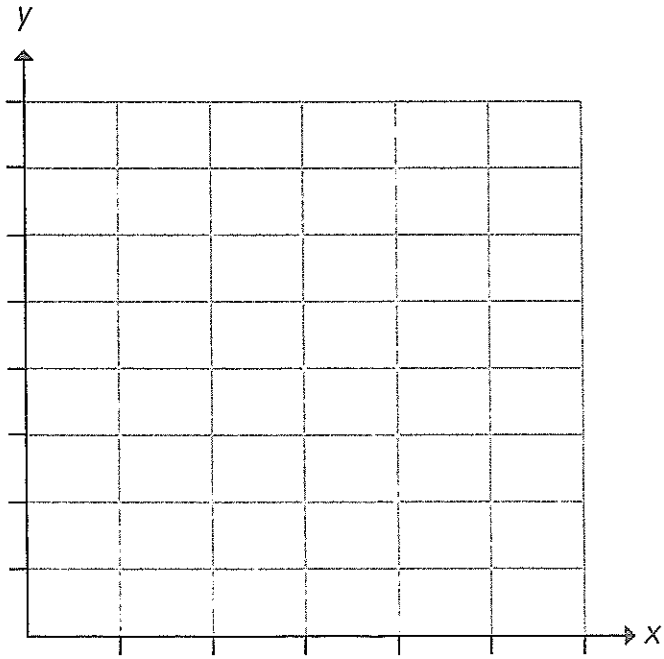
Complete each table. Then, graph the two sets of data, and answer to .

Sarah drinks 15 milliliters of milk every second, while Megan drinks 10 milliliters of milk every second. Complete each table below to show the total amount of milk each of them drinks in 5 seconds.

0	1	2	3	4	5
0					

0	1	2	3	4	5
0	10				

Plot the points of each graph on a coordinate grid. Use increments of 10 on the vertical scale.



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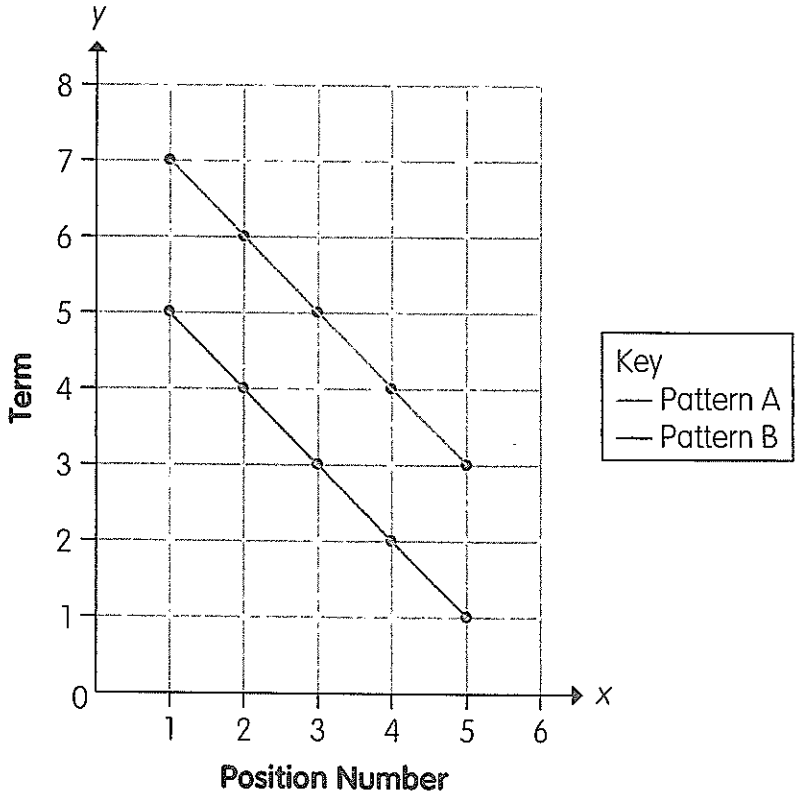
How much milk does each person drink in 3 seconds?

How long does each person take to drink 60 milliliters of milk?

How much milk does each person drink in 7 seconds?

Sarah drinks _____ times more than Megan each second.

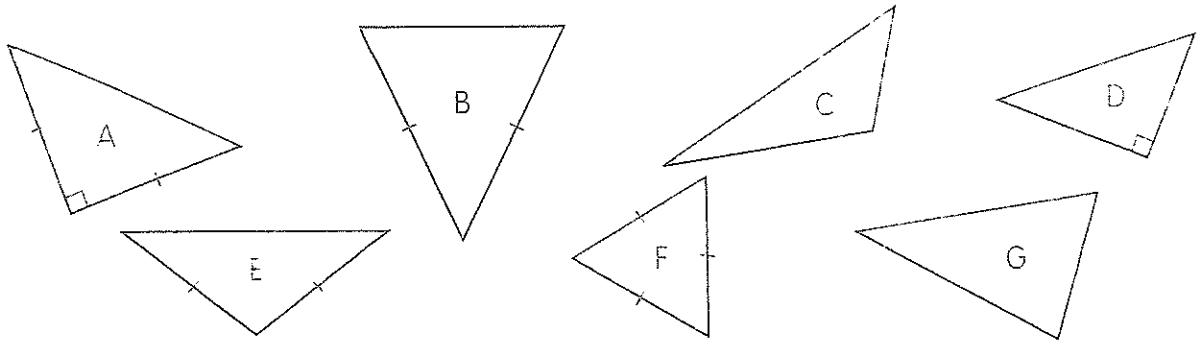
Use the graph to answer to .



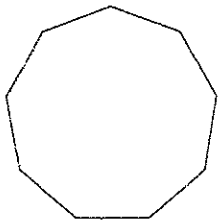
Does the point (6, 2) belong to Pattern A or Pattern B?

For each value of x from 0 to 6, what can you say about the difference between the y-values for the two patterns?

Classify each triangle. Choose one name that best describes each triangle.



Name the polygon. Identify whether it is a regular polygon.

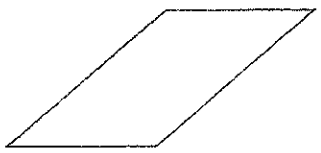


Name: _____

Is this a regular polygon?

_____

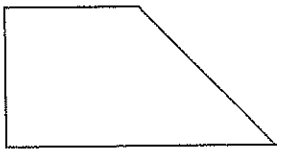
Classify each polygon in as many ways as possible. Write



_____

_____

or



_____

_____

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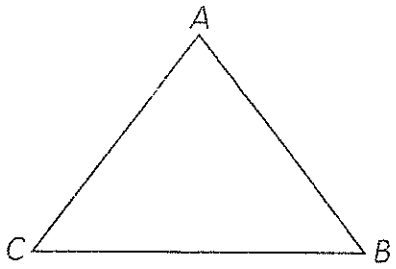
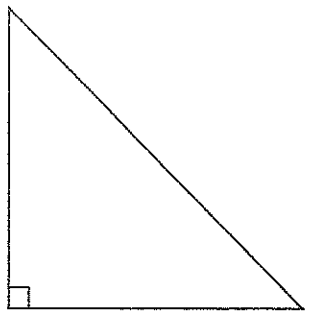
Classify each triangle in as many ways as possible. Write [illegible], [illegible], [illegible], [illegible], [illegible], or [illegible].





_____ _____

Assessment Prep

Answer each question.

Which figure is never a parallelogram?

- ◯ square
- ◯ rhombus
- ◯ rectangle
- ◯ trapezoid

Which statements about figures are correct?

- ◯ All kites are rhombuses.
- ◯ All squares are parallelograms.
- ◯ All parallelograms have two pairs of parallel sides.
- ◯ All kites have two pairs of equal sides.
- ◯ All rectangles are squares.

A quadrilateral has only two equal sides. What kind of quadrilateral can it be? Explain.

Day 96

Mixed Problems

Name: _____

Score: /60

Time: :

1. 12 x 5	2. 4 x 3	3. 6 x 8	4. 6 x 7	5. 9 x 3	6. 8 x 4
7. 3 x 5	8. 6 x 4	9. 7 x 6	10. 4 x 8	11. 2 x 12	12. 9 x 6
13. 9 x 2	14. 4 x 4	15. 5 x 1	16. 0 x 10	17. 5 x 10	18. 4 x 9
19. 8 x 7	20. 9 x 8	21. 10 x 10	22. 5 x 4	23. 12 x 8	24. 3 x 8
25. 6 x 2	26. 11 x 11	27. 5 x 5	28. 9 x 3	29. 2 x 2	30. 5 x 11
31. 9 x 9	32. 12 x 4	33. 10 x 2	34. 10 x 1	35. 4 x 7	36. 3 x 8
37. 7 x 9	38. 8 x 8	39. 12 x 7	40. 5 x 3	41. 7 x 7	42. 0 x 6
43. 6 x 5	44. 9 x 5	45. 8 x 2	46. 12 x 3	47. 8 x 9	48. 10 x 10
49. 6 x 2	50. 4 x 3	51. 8 x 5	52. 5 x 4	53. 9 x 6	54. 8 x 3
55. 11 x 7	56. 9 x 3	57. 7 x 2	58. 7 x 1	59. 5 x 5	60. 3 x 3

Day 97

Mixed Problems

Name: _____

Score: /60

Time: :

1. 6 x 4	2. 5 x 8	3. 7 x 6	4. 1 x 5	5. 8 x 3	6. 5 x 6
7. 8 x 8	8. 5 x 2	9. 4 x 9	10. 6 x 8	11. 2 x 4	12. 9 x 7
13. 7 x 4	14. 2 x 8	15. 5 x 1	16. 4 x 11	17. 8 x 4	18. 1 x 12
19. 3 x 6	20. 3 x 4	21. 6 x 12	22. 5 x 9	23. 1 x 7	24. 3 x 12
25. 10 x 0	26. 9 x 9	27. 0 x 0	28. 5 x 2	29. 8 x 7	30. 5 x 6
31. 3 x 8	32. 4 x 9	33. 11 x 6	34. 8 x 2	35. 6 x 9	36. 5 x 8
37. 4 x 2	38. 7 x 7	39. 8 x 12	40. 10 x 10	41. 6 x 10	42. 2 x 2
43. 6 x 6	44. 8 x 9	45. 7 x 3	46. 11 x 9	47. 2 x 7	48. 6 x 5
49. 5 x 12	50. 3 x 3	51. 7 x 5	52. 7 x 9	53. 11 x 10	54. 8 x 3
55. 1 x 2	56. 2 x 4	57. 5 x 9	58. 7 x 4	59. 3 x 6	60. 11 x 5

Day 98

Mixed Problems

Name: _____

Score: /60

Time: :

1. 8 x 7	2. 8 x 4	3. 7 x 2	4. 9 x 6	5. 3 x 7	6. 8 x 10
7. 12 x 7	8. 6 x 2	9. 9 x 7	10. 3 x 3	11. 6 x 6	12. 9 x 5
13. 5 x 4	14. 7 x 0	15. 5 x 6	16. 4 x 4	17. 1 x 0	18. 7 x 4
19. 10 x 11	20. 3 x 4	21. 2 x 9	22. 6 x 4	23. 5 x 5	24. 8 x 2
25. 8 x 3	26. 0 x 8	27. 9 x 3	28. 5 x 2	29. 2 x 12	30. 5 x 10
31. 7 x 6	32. 12 x 4	33. 10 x 3	34. 6 x 1	35. 4 x 7	36. 5 x 8
37. 12 x 9	38. 10 x 8	39. 11 x 7	40. 5 x 3	41. 7 x 5	42. 8 x 2
43. 3 x 3	44. 4 x 5	45. 8 x 4	46. 12 x 5	47. 9 x 9	48. 1 x 5
49. 7 x 8	50. 6 x 3	51. 8 x 5	52. 9 x 4	53. 6 x 10	54. 8 x 3
55. 2 x 5	56. 0 x 3	57. 7 x 10	58. 12 x 8	59. 9 x 3	60. 6 x 7

Day 99

Mixed Problems

Name: _____

Score: /60

Time: :

1. 9 x 9	2. 8 x 6	3. 2 x 7	4. 8 x 5	5. 3 x 6	6. 10 x 12
7. 3 x 3	8. 5 x 2	9. 6 x 1	10. 7 x 3	11. 2 x 4	12. 9 x 8
13. 5 x 1	14. 11 x 11	15. 5 x 4	16. 6 x 4	17. 8 x 3	18. 1 x 3
19. 6 x 6	20. 3 x 4	21. 2 x 9	22. 5 x 4	23. 8 x 7	24. 3 x 2
25. 9 x 7	26. 7 x 4	27. 6 x 5	28. 5 x 2	29. 10 x 2	30. 8 x 4
31. 11 x 8	32. 0 x 10	33. 12 x 6	34. 8 x 1	35. 3 x 9	36. 2 x 8
37. 12 x 5	38. 7 x 1	39. 8 x 5	40. 4 x 2	41. 9 x 9	42. 4 x 2
43. 9 x 6	44. 11 x 9	45. 7 x 3	46. 11 x 4	47. 7 x 7	48. 6 x 5
49. 7 x 9	50. 10 x 1	51. 7 x 5	52. 12 x 9	53. 6 x 8	54. 9 x 2
55. 4 x 3	56. 7 x 4	57. 8 x 9	58. 5 x 4	59. 11 x 10	60. 8 x 3

Day 100

Mixed Problems

Name: _____

Score: /60

Time: :

1. 1 x 3	2. 2 x 2	3. 11 x 2	4. 1 x 8	5. 9 x 5	6. 7 x 10
7. 9 x 3	8. 6 x 6	9. 9 x 6	10. 3 x 3	11. 8 x 4	12. 3 x 7
13. 8 x 12	14. 8 x 8	15. 5 x 1	16. 8 x 2	17. 9 x 3	18. 1 x 3
19. 7 x 4	20. 3 x 4	21. 2 x 0	22. 5 x 4	23. 8 x 7	24. 3 x 2
25. 9 x 2	26. 1 x 4	27. 9 x 7	28. 5 x 2	29. 12 x 4	30. 5 x 4
31. 7 x 8	32. 4 x 4	33. 11 x 5	34. 6 x 1	35. 12 x 7	36. 9 x 8
37. 5 x 3	38. 10 x 8	39. 12 x 12	40. 4 x 9	41. 11 x 5	42. 6 x 2
43. 5 x 5	44. 9 x 5	45. 0 x 6	46. 5 x 2	47. 12 x 9	48. 7 x 5
49. 9 x 8	50. 12 x 3	51. 8 x 5	52. 5 x 4	53. 9 x 2	54. 8 x 3
55. 6 x 3	56. 7 x 7	57. 8 x 5	58. 7 x 4	59. 9 x 3	60. 6 x 9