

RCDS Summer Math Packet - 2023-2024



Dear Rising 6th Graders,

Congratulations are in order!! As this year comes to a close, it is important to remember some foundational skills from your 5th Grade year at RCDS. In this packet, the building blocks that will set you up for 6th Grade will be divided into 6 week sections. The skills reflected in the packet are concepts we have worked on throughout the entirety of this past school year. I would like to emphasize that your time over the summer is your break, but also a time where things can be forgotten. That being said, enjoy my favorite season “**SUM**”mer :)

Week #1 - (July 3) Measurement, Exponents and Order of Operations

Week #2 - (July 10) Decimal Operations

Week #3 - (July 17) Fraction Operations

Week #4 - (July 24) Proportions and Scale Drawings

Week #5 - (July 31) Percents

Week #6 - (August 7) Basic Geometry

It has been my honor and privilege to have taught such bright students. You are all so special in your own way and I know you will succeed in anything you put your mind to. I wish you all the **LUCK** and **SUCCESS** in all of your future endeavors.

All my very best,
Mrs. Forsyth



Week # 1

Find the equivalent measures.

| | |
|----------------------------------|--------------------------------|
| (a) 0.4 km = _____ m | (b) 1.5 km = _____ m |
| (c) 0.09 kg = _____ g | (d) 0.43 m = _____ cm |
| (e) 1.25 ft = _____ ft _____ in. | (f) 4.5 lb = _____ lb _____ oz |
| (g) 3.04 km = _____ km _____ m | (h) 3.8 L = _____ L _____ ml |

Find the value of each of the following.

(a) $120 - 20 \div 5$

(b) $6 \times 2 + 8 \div 2 \times 4$

(c) $(15 + 3) \div 5 \times 5$

(d) $120 \div 12 + 7 \times 8$

(e) $27 + 96 \div 12 \div 4$

(f) $(45 + 27) \div (17 - 8)$

(g) $130 + 50 + 20 + 70 + 50$

(h) $145 - 25 \times 4$

(i) $228 \div 6 \times 2$

(j) $4 - [7 \div (4 + 3) \times 3]$

(k) $[(87 + 9) \div 3 \div 4 + 2] \times (10 - 5)$

(l) $240 + 60 \times [5 \div (6 + 18 - 19)]$

(m) $7 \times (28 - (8 + ((120 - 20) \div 5)))$

Introduction to Exponents

Write in exponent form. Then find the value.

1. six cubed

2. the fifth power of 3

3. fifty squared

4. the sixth power of 10

5. $25 \times 25 \times 25$

6. $8 \times 8 \times 8 \times 8$

Find the value.

7. 9^3 _____

8. 13^2 _____

9. 5^5 _____

10. 1^8 _____

11. 30^3 _____

12. 4^6 _____

13. 11^3 _____

14. 10^8 _____

15. 70^2 _____

Find the value of n .

16. $n^2 = 225$

17. $10^n = 1,000,000$

18. $n^3 = 8,000$

Mixed Review

Order from *least* to *greatest*.

19. 1.939, 1.393, 3.919, 91.93, 3.199

Order from *greatest* to *least*.

20. 2.345, 2.543, 2.435, 2.534, 2.453

Compare. Write $<$, $>$, or $=$ in each \bigcirc .

21. 5.9376 \bigcirc 5.3897

22. 8.639 \bigcirc 8,639

23. 3,384,844 \bigcirc 3,038,484

24. William bought 7 pumpkins for a total of \$15.75. How much did each pumpkin cost?

25. What type of graph would you use to display the ages of students in your classroom?

Prime and Composite Numbers

Vocabulary

1. A _____ has exactly two factors, 1 and the number itself.
2. A _____ has more than two factors.

List all the arrays for each number. Write *prime* or *composite* for each number.

3. 8

4. 7

5. 12

6. 9

7. 6

8. 5

Write *prime* or *composite* for each number.

9. 30

10. 16

11. 24

12. 31

Mixed Review

Find the least common multiple for each set of numbers.

13. 6, 7, 3

14. 7, 8, 10

15. 2, 5, 6

16. 3, 4, 7

17. The area of Sharon's garden is 40 sq ft. List all its whole-number possible lengths and widths.

18. Beth has \$0.60 more than Suzy. Together they have \$8.20. How much money does each girl have?

Week # 2

1. What is the value of the digit 6 in each of the following?

(a) 1.658

(b) 6.185

(c) 3.069

(d) 5.746

2. Fill in the missing numbers.

(a) $5.04 = \square$ ones \square tenths \square hundredths

(b) $6.238 = \square$ ones \square tenths \square hundredths \square thousandths

3. Fill in the missing numbers.

(a) In 3.864, the digit \square is in the thousandths place.

(b) In 49.73, the digit \square is in the tenths place.

(c) In 12.58, the value of the digit 8 is \square .

(d) In 3.704, the value of the digit 4 is \square .

4. Write each of the following as a decimal.

(a) 7 ones 6 tenths 2 hundredths 3 thousandths

(b) 4 ones 6 tenths 5 thousandths

(c) 3 hundreds 8 tens 5 thousandths

(d) 8 ones 2 thousandths

Express each fraction as a decimal correct to one decimal place.

| | |
|---|---|
| <p>(a) $\frac{8}{9} \approx$</p> <p>$9 \overline{)8}$</p> | <p>(b) $4\frac{1}{6} \approx$</p> |
| <p>(c) $\frac{2}{3} \approx$</p> | <p>(d) $5\frac{3}{7} \approx$</p> |
| <p>(e) $4\frac{5}{8} \approx$</p> | <p>(f) $16\frac{5}{6} \approx$</p> |

Estimate. Then find the sum or difference.

| | | |
|----------------------------|----------------------------|-----------------------------|
| (a) $2.398 + 46.2 \approx$ | (b) $0.049 + 6.32 \approx$ | (c) $5.98 + 34.086 \approx$ |
| (d) $5.893 - 0.48 \approx$ | (e) $45.9 - 3.06 \approx$ | (f) $10.055 - 4.8 \approx$ |

Multiply.

(a) $0.03 \times 10 =$

(b) $0.009 \times 10 =$

(c) $0.067 \times 10 =$

(d) $0.84 \times 10 =$

(e) $2.9 \times 10 =$

(f) $0.321 \times 10 =$

(g) $5.24 \times 10 =$

(h) $35.4 \times 10 =$

(i) $6.015 \times 10 =$

(j) $412.8 \times 10 =$

Multiply.

| | |
|-------------------------|--------------------------|
| (a) $9.54 \times 4.2 =$ | (b) $43.21 \times 1.9 =$ |
|-------------------------|--------------------------|

Adam bought 8 notepads at \$1.45 each and 10 towels. He gave the cashier \$100 and received \$46 change. Find the cost of each towel.

Adam mixed 3.46 kg of hazel nuts with twice as many kilograms of almond nuts. He packed the mixture into 9 bags. How many kilograms of nuts were there in each bag? Give your answer in kilograms correct to one decimal place.

Estimate. Then find the value of each of the following.

| | | |
|---------------------------|--------------------------|---------------------------|
| (a) $38.4 \div 3 \approx$ | (b) $3.1 \div 5 \approx$ | (c) $62 \div 4 \approx$ |
| (d) $25.9 \div 7 \approx$ | (e) $30 \div 8 \approx$ | (f) $80.1 \div 9 \approx$ |

Week # 3

Fill in the missing numerator or denominator in each of the following.

(a) $\frac{4}{5} = \frac{12}{\square}$

(b) $\frac{3}{7} = \frac{\square}{28}$

(c) $\frac{25}{\square} = \frac{5}{8}$

(d) $\frac{6}{9} = \frac{2}{\square}$

(e) $\frac{2}{12} = \frac{\square}{6}$

(f) $\frac{5}{\square} = \frac{10}{12}$

Express each of the following as an improper fraction.

| | |
|----------------------|----------------------|
| (a) $1\frac{2}{3} =$ | (b) $1\frac{5}{7} =$ |
| (c) $2\frac{1}{4} =$ | (d) $2\frac{3}{8} =$ |

Express each of the following as a mixed number.

| | |
|-----------------------|-----------------------|
| (e) $\frac{21}{7} =$ | (f) $\frac{20}{8} =$ |
| (g) $\frac{17}{10} =$ | (h) $\frac{26}{12} =$ |

Find the Greatest Common Factor (GCF) of the numbers by listing them (the rainbow)
16 and 24

Find the GCF of the numbers by using Prime Factorization, 14 and 38

) Is the number 25 Prime or Composite?

) Test 120 for divisibility by 2, 3, 5, 6, 9, and 10

Write the Prime Factorization of 30 (use factor tree)

Write the Prime Factorization of 210 (use factor tree)

Add or subtract. Write each answer in its simplest form.

$$\frac{1}{6} + \frac{3}{10} =$$

$$\frac{2}{3} + \frac{1}{12} =$$

$$1\frac{3}{8} - \frac{7}{12} =$$

$$1\frac{1}{3} - \frac{7}{10} =$$

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

$$2\frac{5}{6} + 5\frac{1}{2} =$$

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

$$3\frac{1}{6} - 2\frac{1}{10} =$$

A container has a capacity of 3 L. It contains $1\frac{3}{4}$ L of water.

How much more water is needed to fill the container completely?

Mr. Williams planned to spend $1\frac{1}{2}$ h to cook a meal. He finished the cooking in $1\frac{1}{12}$ h instead. How much earlier did he finish the cooking?

The total length of two ribbons is $2\frac{3}{4}$ m. If one ribbon is $1\frac{1}{3}$ m long, what is the length of the other ribbon?

Find the value of each of the following.

(a) $\frac{7}{9} \times \frac{3}{4}$

(b) $36 \times \frac{5}{9}$

(c) $\frac{2}{3} \div \frac{5}{6}$

(d) $3 \div \frac{1}{8}$

Find the value of each of the following.

(a) Divide $\frac{4}{9}$ by 6.

(b) Multiply $\frac{4}{9}$ by 6.

(c) Find the product of $\frac{4}{5}$ and $\frac{5}{8}$.

Divide.

| | |
|-----------------------------|-----------------------------|
| (a) $3 \div \frac{3}{4} =$ | (b) $12 \div \frac{3}{4} =$ |
| (c) $10 \div \frac{5}{8} =$ | (d) $15 \div \frac{3}{5} =$ |

Six cups of water is $\frac{2}{3}$ of a jug. Find the total number of cups of water in the jug.

Water is poured equally into 4 containers. Each container has 5 cups of water. How many quarts of water are there in the 4 containers?

Brian bought 54 tangerines. He gave away $\frac{2}{3}$ of them and ate $\frac{1}{6}$ of the remainder. How many tangerines did he have left?

Week # 4

Equal Ratios

Give two ratios equal to the given ratio.

1. 8 to 12 _____
2. $\frac{3}{5}$ _____
3. 9 to 3 _____
4. 15 : 35 _____
5. $\frac{8}{10}$ _____
6. $\frac{7}{8}$ _____

State if the ratios are equal.

7. 4 : 8; 1 : 2 _____
8. $\frac{3}{6}$, $\frac{5}{8}$ _____
9. 12 to 15, 4 to 5 _____
10. $\frac{10}{12}$, $\frac{15}{18}$ _____
11. 15 : 20, 20 : 25 _____
12. 10 to 8, 20 to 15 _____
13. $\frac{5}{9}$, 8 to 13 _____
14. 8 : 14, $\frac{4}{7}$ _____
15. 12 to 28, 18 : 42 _____

For exercises 16–19, give three equal ratios.

16. A third grade class has 4 boys for every 3 girls. _____
17. A pet store has 5 cat collars for every 8 dog collars. _____
18. A corporation has 2 secretaries for every executive. _____
19. A carnival game has 2 winners for every 7 losers. _____

Complete each table of equal ratios.

20. 8 snakes for every 3 turtles

| | | | | |
|---------|---|---|---|----|
| Snakes | | | | |
| Turtles | 3 | 6 | 9 | 12 |

21. 7 dogs out of 12 pets

| | | | | |
|------|---|----|----|----|
| Dogs | 7 | | 21 | |
| Pets | | 24 | | 48 |

22. 12 pizzas to 9 lasagnas

| | | | | |
|----------|---|---|---|----|
| Pizzas | 4 | 8 | | |
| Lasagnas | | | 9 | 12 |

23. 16 cars to 20 trucks

| | | | | |
|--------|---|----|----|----|
| Cars | | | 12 | 16 |
| Trucks | 5 | 10 | | |

24. **Social Science** The ratio of Delaware residents to Maine residents was about 55 : 100 in 1970 and about 66 : 120 in 1990. Are these ratios equal?

Solving Proportions Using Cross Products

Solve each proportion.

1. $\frac{12}{a} = \frac{16}{20}$

$a =$ _____

2. $\frac{2}{8} = \frac{t}{20}$

$t =$ _____

3. $\frac{30}{a} = \frac{20}{18}$

$a =$ _____

4. $\frac{45}{x} = \frac{18}{8}$

$x =$ _____

5. $\frac{u}{5} = \frac{6}{3}$

$u =$ _____

6. $\frac{15}{5} = \frac{6}{a}$

$a =$ _____

7. $\frac{m}{8} = \frac{12}{16}$

$m =$ _____

8. $\frac{40}{y} = \frac{16}{2}$

$y =$ _____

9. $\frac{16}{36} = \frac{g}{45}$

$g =$ _____

10. $\frac{s}{28} = \frac{30}{21}$

$s =$ _____

11. $\frac{4}{5} = \frac{8}{d}$

$d =$ _____

12. $\frac{15}{5} = \frac{12}{c}$

$c =$ _____

13. $\frac{16}{28} = \frac{h}{7}$

$h =$ _____

14. $\frac{2}{k} = \frac{3}{6}$

$k =$ _____

15. $\frac{30}{3} = \frac{j}{2}$

$j =$ _____

16. $\frac{3}{r} = \frac{2}{8}$

$r =$ _____

What is a Rate?

State if the ratio is a unit rate.

1. $\frac{3 \text{ cats}}{5 \text{ dogs}}$ _____

2. $\frac{1 \text{ ounce}}{\$0.15}$ _____

3. $\frac{12 \text{ inches}}{1 \text{ foot}}$ _____

4. $\frac{20 \text{ miles}}{1 \text{ hour}}$ _____

5. $\frac{6 \text{ pounds}}{1 \text{ dollar}}$ _____

6. $\frac{125 \text{ miles}}{5 \text{ hours}}$ _____

7. $\frac{1 \text{ table}}{6 \text{ chairs}}$ _____

8. $\frac{1 \text{ dollar}}{3 \text{ oranges}}$ _____

9. $\frac{2 \text{ cups}}{1 \text{ pint}}$ _____

10. $\frac{3 \text{ quarts}}{2 \text{ pounds}}$ _____

11. $\frac{4 \text{ books}}{1 \text{ dollar}}$ _____

12. $\frac{13 \text{ feet}}{1 \text{ foot}}$ _____

For each situation, give two equal rates.

13. Robert drove 20 miles in 30 minutes. 14. Helen earned \$18 for working 3 hours.

15. A radio station played 15 songs in 1 hour.

16. A breakfast cereal contains 75 raisins in every pound.

17. Becky ran 2 miles in 14 minutes.

18. June bought 3 pounds of asparagus for \$2.

Scale Drawings

Vocabulary

Fill in the blank.

1. A ratio that compares the distance on a map to the actual distance is a _____.

Complete the ratio table.

| | | | | | | |
|----|----------------------|----|----|-------|-------|-------|
| 2. | Scale Distance (in.) | 1 | 2 | _____ | 7 | _____ |
| 3. | Actual Length (ft) | 18 | 36 | 90 | _____ | 198 |

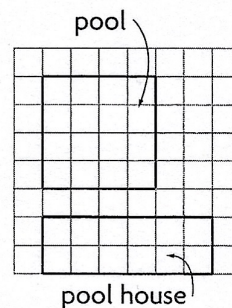
| | | | | | | |
|----|---------------------|---|----|-------|-------|-------|
| 4. | Scale Distance (cm) | 1 | 4 | 7 | _____ | 15 |
| 5. | Actual Length (m) | 7 | 28 | _____ | 84 | _____ |

For 6–9, use the drawing of the patio and the scale.

6. What is the width of the pool in units?

7. What is the actual width of the pool?

8. What is the perimeter of the pool house in units? in feet?



Scale:
1 linear unit = 4 ft


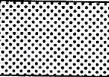

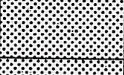

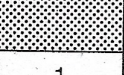

9. What is the ratio of linear units to feet?

Week # 5

Exploring Percent Patterns

1. Use the table to help you complete these sentences.

- a. Equivalents of tenths are multiples of _____ %.
- b. Equivalents of fifths are multiples of _____ %.
- c. Equivalents of halves are multiples of _____ %.

| Halves | Fifths | Tenths | Percents |
|---|--|----------------|----------|
|  |  | $\frac{1}{10}$ | 10% |
|  | $\frac{1}{5}$ | $\frac{2}{10}$ | 20% |
|  |  | $\frac{3}{10}$ | 30% |
|  | $\frac{2}{5}$ | $\frac{4}{10}$ | 40% |
| $\frac{1}{2}$ |  | $\frac{5}{10}$ | 50% |

Complete each pattern. You may use a calculator to help.

2. $\frac{1}{8} =$ _____ %

$\frac{2}{8} =$ _____ %

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

$\frac{4}{8} =$ _____ %

3. $\frac{1}{4} =$ _____ %

$\frac{2}{4} =$ _____ %

$\frac{3}{4} =$ _____ %

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

4. $\frac{1}{6} =$ _____ %

$\frac{2}{6} =$ _____ %

$\frac{3}{6} =$ _____ %

$\frac{4}{6} =$ _____ %

5. $\frac{1}{3} =$ _____ %

$\frac{2}{3} =$ _____ %

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

6. Explain how knowing $\frac{1}{2} = 50\%$ can help you to find the percent equivalent of $\frac{2}{4}$.

Converting Percents to Fractions and Decimals

Convert to a fraction in lowest terms.

1. 80% _____ 2. 25% _____ 3. 78% _____ 4. 98% _____

5. 32% _____ 6. 30% _____ 7. 45% _____ 8. 118% _____

9. 65% _____ 10. 185% _____ 11. 63% _____ 12. 28% _____

13. 275% _____ 14. 84% _____ 15. 104% _____ 16. 18% _____

Convert to a percent.

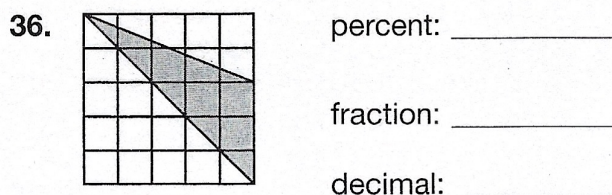
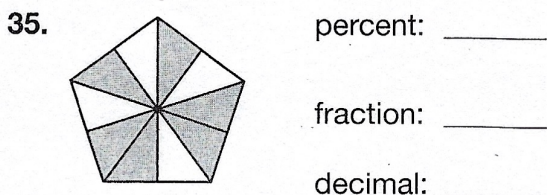
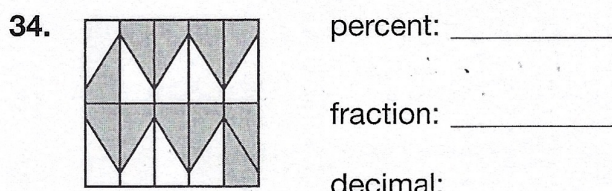
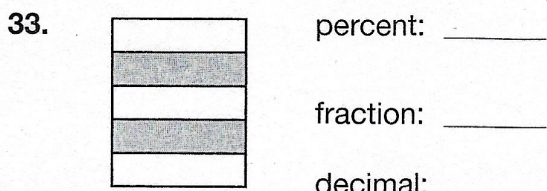
17. $\frac{7}{10}$ _____ 18. $\frac{37}{50}$ _____ 19. $\frac{1}{2}$ _____ 20. $\frac{18}{25}$ _____

21. 0.41 _____ 22. 0.03 _____ 23. 0.74 _____ 24. 0.92 _____

25. $\frac{123}{300}$ _____ 26. $\frac{15}{20}$ _____ 27. $\frac{31}{20}$ _____ 28. $\frac{1}{10}$ _____

29. 0.67 _____ 30. 4.10 _____ 31. 0.8 _____ 32. 0.137 _____

Give the shaded part of each figure as a percent, fraction, and decimal.

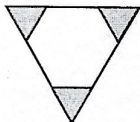


37. In 1993, about $\frac{1}{50}$ of American children lived with relatives other than their parents. Convert this value to a percent. _____

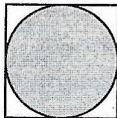
38. In 1950, $\frac{2}{25}$ of the American population was at least 65 years old. What percent is this? _____

Estimate the percent of each figure that is shaded.

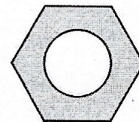
1. _____



2. _____



3. _____



Convert each percent to a decimal and a fraction.

4. 37% _____ 5. 40% _____ 6. 84% _____

7. 35% _____ 8. 170% _____ 9. 12% _____

10. 68% _____ 11. 8% _____ 12. 38% _____

Convert to a percent.

13. 0.47 _____ 14. 0.1 _____ 15. 0.95 _____ 16. 0.74 _____

17. $\frac{7}{10}$ _____ 18. $\frac{19}{25}$ _____ 19. $\frac{14}{40}$ _____ 20. $\frac{27}{50}$ _____

21. 0.02 _____ 22. 2.73 _____ 23. 0.462 _____ 24. 0.87 _____

25. $\frac{11}{2}$ _____ 26. $\frac{8}{5}$ _____ 27. $\frac{9}{10}$ _____ 28. $\frac{8}{25}$ _____

Simplify.

29. 28% of 64 _____ 30. 70% of 51 _____ 31. 68% of 94 _____

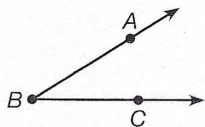
32. 43% of 83 _____ 33. 4% of 23 _____ 34. 86% of 28.5 _____

Week # 6

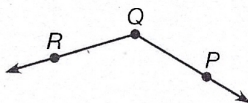
Section 5.3 Review

Use the letters to name each angle in three ways.

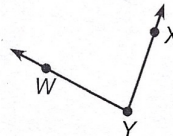
1. _____



2. _____

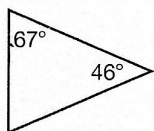


3. _____

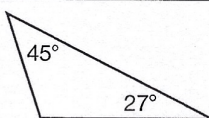


Classify each triangle by its sides. Find the measure of each missing angle.

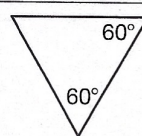
4. _____



5. _____



6. _____



Draw an example of each figure.

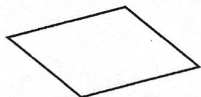
7. Irregular octagon

8. Regular triangle

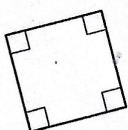
9. Irregular pentagon

Classify each figure in as many ways as possible.

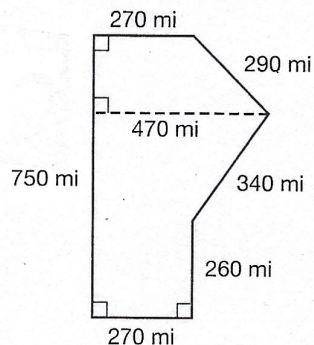
10. _____



11. _____



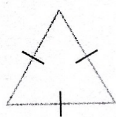
12. **Geography** The figure at the right shows the approximate shape of Manitoba, Canada. Find the approximate area of Manitoba.



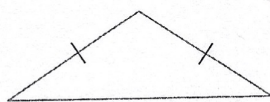
13. **Science** A typical female swallowtail butterfly weighs about $\frac{11}{20}$ gram. Find the weight of 12 female swallowtails.

Triangles

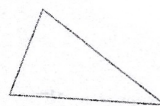
◆ One way to classify triangles is by the lengths of their sides.



equilateral triangle:
3 equal side lengths

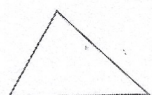


isosceles triangle: at least
2 equal side lengths

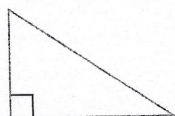


scalene triangle:
no equal side lengths

◆ Another way to classify triangles is by the measures of their angles.
These triangle names are related to the angle names.



acute triangle:
3 acute angles



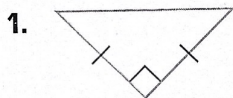
right triangle:
1 right angle
2 acute angles

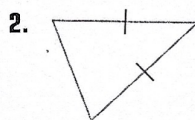


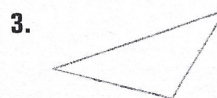
obtuse triangle:
1 obtuse angle
2 acute angles

MORE PRACTICE

Classify the triangle in two ways.







Try to draw a triangle for the given description. Write *possible* or *impossible*.

4. isosceles and acute

5. scalene and obtuse

6. isosceles and right

7. Explain why one triangle can be classified in two ways.

Classify the triangle in two ways.

1. The triangle has 3 acute angles and exactly 2 sides of equal length.

2. The triangle has 2 sides of equal length and 1 right angle.

3. The triangle has all different side lengths and 1 obtuse angle.

4. The triangle has 3 acute angles and no equal side lengths.

5. Use a ruler to draw three isosceles triangles. Each triangle should be classified differently based on its angles.

6. The perimeter of an isosceles triangle is 54 ft. The two sides with equal lengths are both 6 yd long. What is another name for this triangle? Which name better describes the triangle?

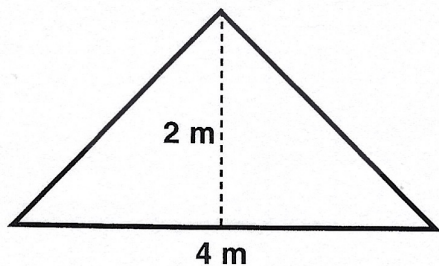
7. The perimeter of a triangle is 100 cm. Two sides are 29 cm and 42 cm long. Classify the triangle according to side lengths. Explain.

Write About It ♦

8. Henry draws an acute triangle. He can classify it according to its side lengths in two different ways. How is this possible? What kind of triangle does he draw?

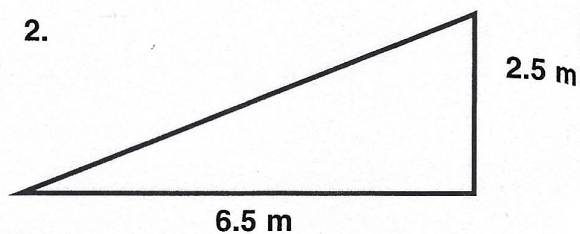
Find the area of the following triangles. Use the formula, $\text{Area} = \frac{1}{2} \times (\text{base} \times \text{height})$.

1.



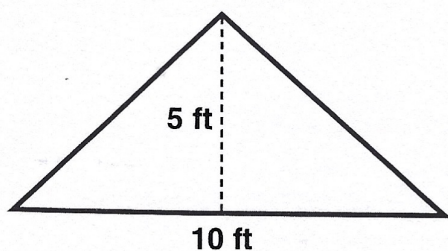
Area = _____

2.



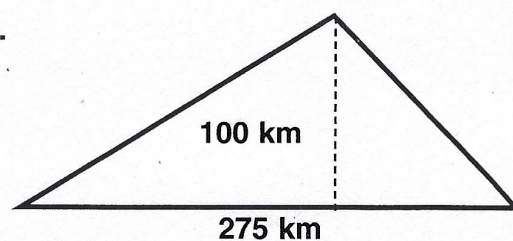
Area = _____

3.



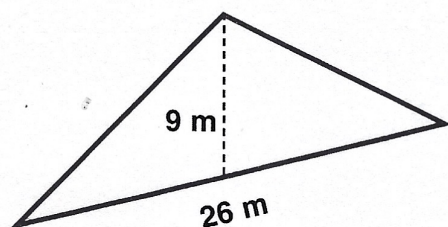
Area = _____

4.



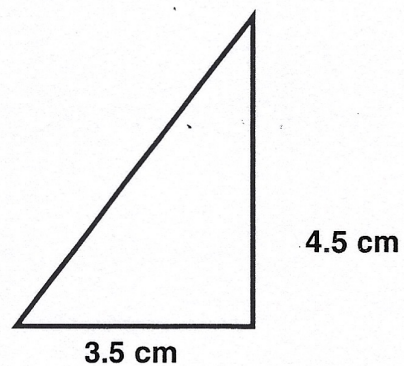
Area = _____

5.



Area = _____

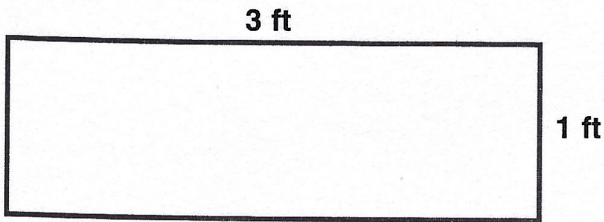
6.



Area = _____

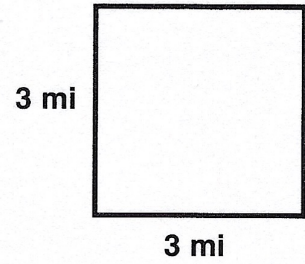
Find the area of the following rectangles or squares. Use the formula,
Area = length x width.

1.



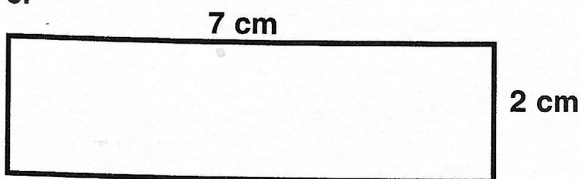
Area = _____

2.



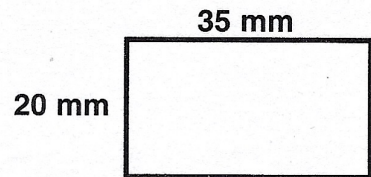
Area = _____

3.



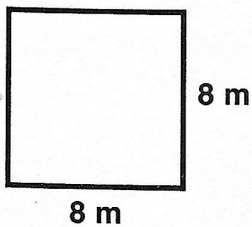
Area = _____

4.



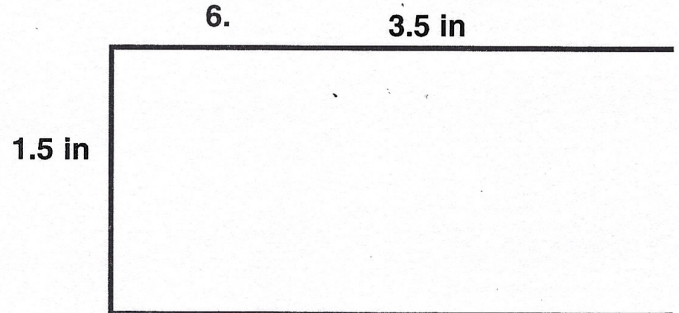
Area = _____

5.



Area = _____

6.

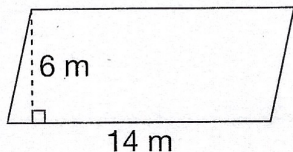


Area = _____

Exploring Area of Parallelograms

Use the formula $A = b \times h$ to find the area of each parallelogram. Fill in the missing numbers.

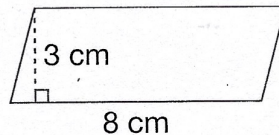
1.



$$A = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

$$A = \underline{\hspace{2cm}} \text{ m}^2$$

2.

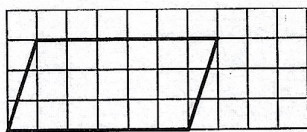


$$A = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

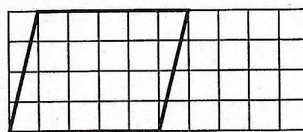
$$A = \underline{\hspace{2cm}} \text{ cm}^2$$

Find each area.

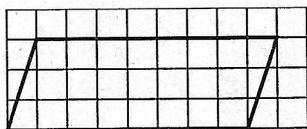
3.



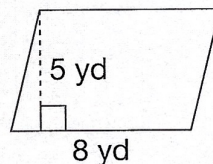
4.



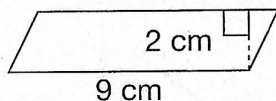
5.



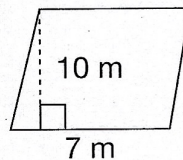
6.



7.

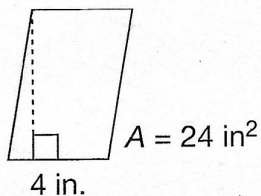


8.

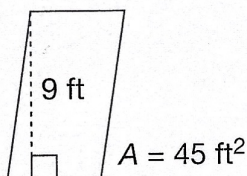


Find each missing base or height.

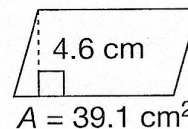
9.



10.



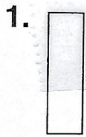
11.

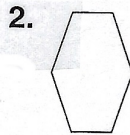


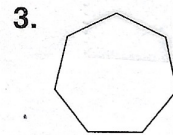
Classifying Polygons - Find the sum of the angle measures in each figure.

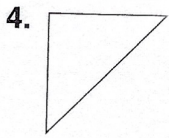
Use the formula $(n - 2)180$.

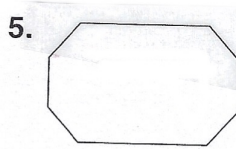
n = number of sides of polygon.

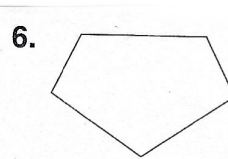








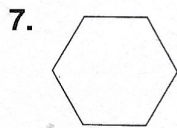


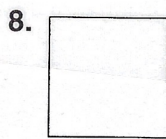


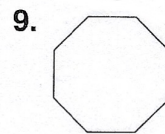
Find the angle measures in each regular polygon.

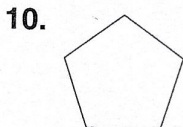
1) Find the sum of the angles by using formula $(n - 2)180$.

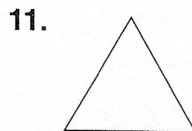
2) Divide the sum of angles by the number of sides to find what one angle measures.

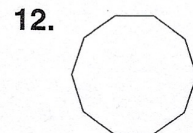












Circles

Find the circumference of each circle, both in terms of π and to the nearest tenth. Use 3.14 for π .

$$C = \pi d$$

$$C = 2\pi r$$

1. circle with radius 10 in.

2. circle with diameter 13 cm

3. circle with diameter 18 m

4. circle with radius 15 ft

5. circle with radius 11.5 in.

6. circle with diameter 16.4 cm

Find the area of each circle, both in terms of π and to the nearest tenth. Use 3.14 for π .

$$A = \pi r^2$$

7. circle with radius 9 in.

8. circle with diameter 14 cm

9. circle with radius 20 ft

10. circle with diameter 17 m

11. circle with diameter 15.4 m

12. circle with radius 22 yd

13. Graph a circle with center (0, 0) that passes through (0, -3). Find the area and circumference, both in terms of π and to the nearest tenth. Use 3.14 for π .

(The circle is drawn for you)

$$r = 3$$

$$d = 6$$

