Hi Friends 😊

- Dates are again written on each page/activity, so you know what to complete when.

- Please email me (hhall@bbsd.org) pictures of your completed work so you get credit!

- Friday is for Lexia and Imagine Math - this is part of your grade.

- Zoom Meetings:
  Reading @ 10 AM ⎫ links are on
  Math @ 10:30 AM ⎬ our Google
  Warrior @ 11 AM ⎭ Classroom
  (Monday - Thursday only.) Pages

- We are almost to the end of the school year. Let's finish strong! I am so proud of you guys!!

💜 Miss Hall

Reading with Miss Hall

What happens with the drill?

Chapter 21 - May 26

What holiday comes and goes?

Who comes back?

What does Brady's mom ask him not to do?

Chapter 22 - May 27

Who goes to the movies?

What is Brady's favorite type of sandwich?

What does Brady ask his dad?

Chapter 23 - May 28

What is the name of the boat they take?

What is one thing that they bring up from the river?

Chapter 24 - June 1

Who comes over right away?

What state does this novel take place in?

Chapter 25 - June 2

How does the court refer to J.T. and Digger that Brady finds comforting?

What is the name of the judge?

What is one food that Brady's mom makes for him during the trial?

Who gets Tiny Tim?

Chapter 26 –June 3

What is one thing Brady has on his list from his mom?

How did the boys plead in court?

What grade is Brady going into?

Chapter 27 –June 4

What is Digger's last name?

What is the name of the judge?

How long will J.T. and Digger be at camp?

What gender is the DiAngeloes' baby?

What do Brady and his dad do in the evenings?

What is the name of the new boat?

Math with Miss Hall

Name **May 26**

Estimate to find an approximate answer or solution. **Compatible numbers** are close to the original numbers and are easy to compute mentally.

1. Use compatible numbers to estimate the percent of each number.

   9% of 79 ≈ _____ % of _____   93% of 47 ≈ _____ % of _____

   ≈ _____   ≈ _____

2. The school cafeteria tracked the lunch orders of 800 students who went through the lunch line in one day. 17% of the students ordered baked potatoes.

   Write 17% as a compatible number.

   17% ≈ _____ %

   Write the percent that you chose as a fraction.

   $\boxed{}\% = \dfrac{\boxed{}}{\boxed{}}$

   Multiply the fraction by the total number of students. $\dfrac{\boxed{}}{\boxed{}} \times 800 = \boxed{}$

   About how many students ordered baked potatoes?

Lunch Orders

17%

43%

27%

13%

Hamburger ■ Meatloaf ■ Pizza
■ Baked Potato

3. About how many students ordered pizza? Show your work.

   About _____ students ordered pizza.

On the Back!

4. Estimate 44% of 96.

6-4 Additional Practice

Leveled Practice In **1–9**, estimate the percent of each number.

1. 24% of 94

24% ≈ ☐

94 ≈ ☐

☐ of ☐ = ☐

2. 54% of 489

54% ≈ ☐

489 ≈ ☐

☐ of ☐ = ☐

3. 8% of 212

8% ≈ ☐

212 ≈ ☐

☐ of ☐ = ☐

4. 38% of 102

5. 42% of 300

6. 79% of 13

7. 84% of 900

8. 13% of 97

9. 28% of 90

10. There are 500 sheets of printer paper in a package. Erin uses 18% of the paper when she prints a report for social studies class. About how many sheets of paper does Erin use for her report? Explain.

11. Bob says that he can estimate 72% of 400 using two different fractions. Is he right? Explain.

12. The parking lot at a mall has space for 318 cars. Eight percent of the parking spaces are for compact cars. About how many parking spaces are for compact cars? Explain.

13. The results of a survey of 878 students show that 62% of the students plan to upgrade their smartphones this year. About how many students plan to upgrade? Use compatible numbers to find the answer.

14. The seating capacity at a movie theater is 400. For a Monday afternoon movie, 68% of the seats are filled. About how many seats are empty?

15. Students plant 148 flowers at a community park. Seventy-eight percent of the flowers are pansies. Use rounding to estimate how many flowers are pansies.

Name _____May 27_____

A rate that compares one quantity to 100 is called a **percent**.

An **estimate**, or approximate answer, can be helpful when working with percent calculations. The estimate can be compared to the exact calculation to check its reasonableness. If the exact calculation is close to the estimate, the answer is reasonable.

1. Suppose 25% of the flowers in a bouquet are red. If there are

   100 flowers in the bouquet, _____ of them are red. If there are

   40 flowers in the bouquet, _____ of them are red.

2. To estimate 21% of 589, you can use compatible numbers.

   20% of _____ is _____.

   The exact percent calculation of 21% of 589 is 0.21 × _____ = _____.

   The exact calculation is close to the estimate, so the answer is reasonable.

3. What is 12% of 284?

   Use compatible numbers and the double number line to estimate 12% of 284.

   Number: 0 28   84   140   196   252 280

   Percent: 0   50   100%
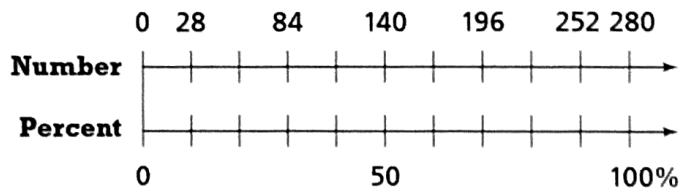
   Using compatible numbers, 12% of 284 is about _____ % of _____.

   Place a dot on the number line at 10%, and circle the number above 10%.

   Next, calculate the exact percent by writing an equation.
   Let x = the unknown part.
   x = 12% of 284

   x = _____ × 284

   x = _____

   The exact answer of _____ is close to the estimate of _____,

   so the answer is _____.

On the Back!

4. What is 35% of 260?

6-5 Additional Practice

In 1–6, find each part.

1. What is 8% of 200?

2. What is 12% of 800?

3. What is 12.8% of 312.5?

4. What is 46% of 388?

5. What is 86% of 20?

6. What is 4.75% of 2,000?

In 7–12, find each percent.

7. What percent of 186 is 93?

8. What percent of 28 is 7?

9. What percent of 250 is 182?

10. What percent of 88 is 77?

11. What percent of 965 is 193?

12. What percent of 2,160 is 270?

13. Jeb earns $8 per hour. He gets a raise of 3.5%. How much is his raise?

14. On a local sports team, 20% of 50 players are left-handed. How many left-handed players are on the team?

15. Jeff ordered soup and a salad at a restaurant for $7.50. He gave the waitress an 18% tip. Ellen ordered a club sandwich for $8.50. She gave the waitress a 16% tip. Who left the greater tip? How much greater?

16. There are 25 acres of land on a farm. The owners planted corn on 68% of the land. On how many acres did they not plant corn?

Name __May 28__

A **percent** compares a part to a whole, using 100 to represent the whole.
A percent greater than 100 shows that the part is more than one whole.

1. Complete each equation by writing the percent as an equivalent decimal. The first equation is done for you.

   200% of 7 = 2 × 7   150% of 8 = _____ × 8

   300% of 17 = _____ × 17   600% of 21 = _____ × 21

   275% of 33 = _____ × 33   480% of 18 = _____ × _____

2. In Reggie's class, 75% of the students brought their lunches on Monday. If 21 students brought their lunches, how many students are in the class in all?

   a. Show the percent and the number of students who brought their lunches by filling in the boxes.

   0%   50% [ ] 100%
   ├──┼──┼──┼──┼──→

   ├──┼──┼──┼──┼──→
   0   [ ] ?
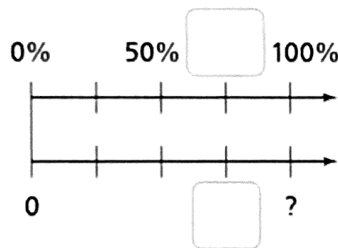
   b. Because 3 tick marks represents 21 students, each tick mark

      represents 21 ÷ 3, or _____ students.

   c. Complete the equation to find what number is 100% of the students in Reggie's class.

      21 + _____ = _____

      So, there are _____ students in Reggie's class.

On the Back!

3. Draw a double number line diagram to solve.
   80% of what number is 112?

Name: __May 28__

6-6 Additional Practice

In **1–8**, find each whole.

1. 70% of what number is 35?

2. 300% of what number is 75?

3. 25% of what number is 2?

4. 150% of what number is 48?

5. 0.2% of what number is 8?

6. 50% of what number is 15?

7. 300% of what number is 51?

8. 37.5% of what number is 6?

9. Kelly had a part-time job last year. She paid the state $234 in income tax. The state income tax rate is 5.2%. How much did Kelly earn?

10. Donations of $375 in March to a homeless shelter are 250% of what they were in February. What were donations to the shelter in February?

11. The number of visitors to a sporting goods website is 1,940 today. This is 400% of the number of visitors on the first day the site was online. How many visitors did the website have on the first day?

12. Reasoning Horatio recorded the daily high temperatures. On 66 days, the high temperature was greater than 88°F. This was 75% of the days that Horatio recorded. How many days was the high temperature less than or equal to 88°F? ⓒ MP.2

13. Maria sold 50 books, or 40% of her book collection, at a yard sale. How many books were in Maria's collection?

14. Reasoning Sam and his friends had take-out spaghetti and meatballs for dinner. The tax was $3. The tax rate is 7.5%. What was the price of the dinners including tax? ⓒ MP.2

6-6

Concept and Skills Review

Understand Percent

Quick Review

A percent is a rate that compares a part to 100. The word *percent* means "of a hundred."

Example

Write the percent represented by the shaded part of the grid.
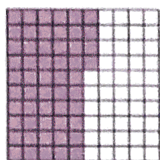
$\frac{54}{100}$ parts shaded $= 54\%$

Practice

In 1 and 2, write the percent of each figure that is shaded.

1.

2.
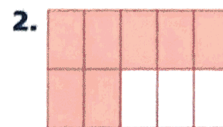
In 3 and 4, write each ratio as a percent.

3. 14 losses in 50 games

4. $\frac{4}{5}$ of the students ride a bus.

5. If $\overline{AB}$ represents 25%, what is the length of a line segment that is 100%?

A ———————————— B
        5 ft
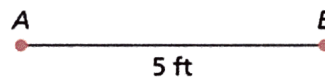
Relate Fractions, Decimals, and Percents

Quick Review

Fractions, decimals, and percents are three ways to show parts of a whole. You can write a percent as a fraction with 100 as the denominator. Then you can write that fraction as a decimal.

Example

Write 35% as a fraction and a decimal.

$35\% = \frac{35}{100}$ or $\frac{7}{20}$

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

Practice

In 1–6, write each number using the two other forms of notation: fraction, decimal, or percent.

1. 0.16

2. $\frac{63}{100}$

3. 27%

4. $\frac{7}{8}$

5. 0.55

6. 7%

7. One piece of wheat bread contains 2 g of fiber, or 8% of the amount of fiber that most people need in a day. What is 8% as a decimal and as a fraction?

Go Online | PearsonRealize.com

Quick Review

Percents less than 1% are less than $\frac{1}{100}$, and percents greater than 100% are more than one whole. You can express percents greater than 100 or less than 1 in equivalent forms.

Example

Write 221% as a fraction and as a decimal.

Fraction: $\frac{221}{100}$

Decimal: $\frac{221}{100} = 221 \div 100 = 2.21$

Write $\frac{1}{4}$% as a fraction and as a decimal.

Fraction: $\frac{1}{4}\% = \frac{1}{4} \div 100$

$= \frac{1}{4} \times \frac{1}{100} = \frac{1}{400}$

Decimal: $\frac{1}{4}\% = 0.25\%$

$= \frac{0.25}{100}$

$= \frac{25}{10,000}$

$= 0.0025$

Practice

In 1–6, write each percent as a fraction and as a decimal.

1. 140%

2. $\frac{7}{10}$%

3. 375%

4. 0.33%

5. 0.5%

6. 250%

7. The radius of the planet Saturn is 945% of the radius of Earth. What is 945% expressed as a fraction and as a decimal?

Quick Review

Fraction equivalents, rounding, or compatible numbers can be used to estimate the percent of a number.

Example

Estimate 24% of 83.

$24\% \approx 25\%$ and $25\% = \frac{1}{4}$

83 rounds to 80.

$\frac{1}{4} \times 80 = 20$

24% of 83 is about 20.

Practice

In 1–6, estimate the percent of each number.

1. 22% of 96

2. 38% of 58

3. 9% of 89

4. 76% of 41

5. 48% of 71

6. 27% of 62

7. Joanna wants to buy a backpack that costs $37.98. The sales tax rate is 8.75%. Estimate the amount of sales tax that Joanna will pay.

LESSON 6-5 | Find the Percent of a Number

June 1

Quick Review

Percent equations have a percent value, a whole, and a part.

Example

What is 16% of 73.5?

Let x = the unknown part.

$x = 0.16 \cdot 73.5$ — Write 16% as a decimal.

$x = 11.76$

16% of 73.5 is 11.76.

What percent of 22 is 9.35?

Let p = the percent value.

$p \cdot 22 = 9.35$

$22p = 9.35$

$\dfrac{22p}{22} = \dfrac{9.35}{22}$

$p = 0.425 = 42.5\%$

42.5% of 22 is 9.35.

Practice

Find each part or percent.

1. 9% of 124

2. What percent of 20 is 3?

3. 24% of 35

4. What percent of 110 is 71.5?

5. 43% of 82

6. What percent of 30 is 24?

7. On Tuesday, 620 students attended a middle school. A survey showed that 341 students brought lunch to school that day. What percent of the students brought their lunches?

LESSON 6-6 | Find the Whole Given a Part and the Percent

Quick Review

You can use an equation or a double number line diagram to find the whole when given the part and the percent.

Example

80% of what number is 96?

Let n = the whole. Write an equation, rename the percent as a decimal, and solve for n.

$80\% \cdot n = 96$

$0.8n = 96$

$\dfrac{0.8n}{0.8} = \dfrac{96}{0.8}$

$n = 120$

80% of 120 is 96.

Practice

Find each whole.

1. 140% of what number is 308?

2. 62% of what number is 186?

3. 80% of what number is 120?

4. 40% of what number is 10?

5. Desmond paid 8.5% sales tax when he bought a new phone. The sales tax was $12.75. What was the total cost of the phone, including tax?

Go Online | PearsonRealize.com

Name ___June 2___

A **parallelogram** is a quadrilateral with both pairs of opposite sides parallel and equal in length.

|←———— base ————→|
11 in.

The **base** of the parallelogram shown is 11 in.

5 in. = height

The **height** of the parallelogram is 5 in.

The parallelogram splits into a triangle and a trapezoid. After the triangle is moved to the right side, a rectangle is formed with a **length** of 11 in. and a **width** of 5 in.

11 in.

5 in.

The area of the rectangle is 11 in. × 5 in. = 55 in.^{2}.

The areas of the parallelogram and the rectangle are the same because the parallelogram can be made into the rectangle by cutting off the triangle and moving it to the other side.
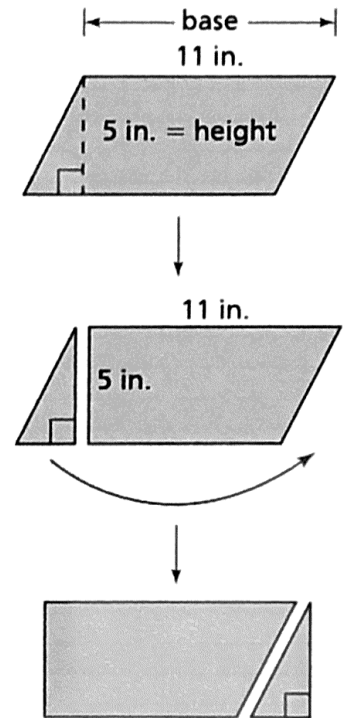
1. Find the area of the rhombus.

   Is the rhombus also a parallelogram? Write yes or no. _____

   The formula for the area of a rhombus is $A =$ _____ • _____ .

   7 ft

   Substitute numbers into the area formula: $A =$ _____ • _____ .

   |←——— 11 ft ———→|

   The area of the rhombus is _____ .
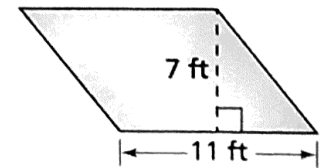
2. Find the area of a parallelogram with a base of 7 cm and a height of 4 cm.

   $A =$ _____ • _____ = _____ cm^2

On the Back!

3. Find the area of the parallelogram.

   25 cm

   10 cm
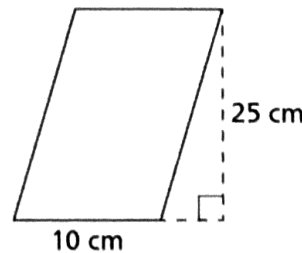
7-1 Additional Practice

In 1–6, find the area of each parallelogram or rhombus.

1.

100 ft

50 ft

2.

7 m

12 m

3.

8.6 cm

9 cm
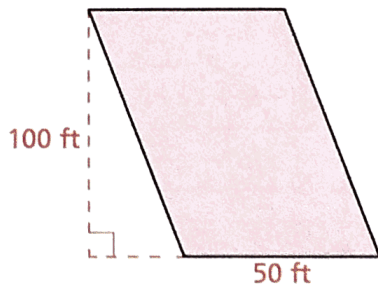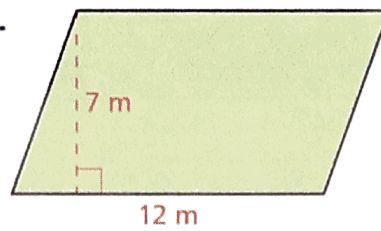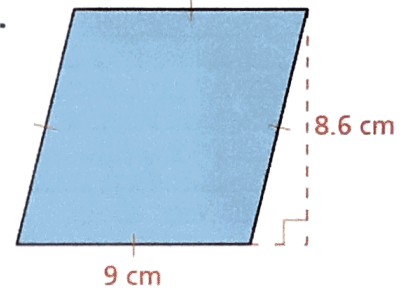
4. Rhombus

$b = 30$ m

$h = 15.5$ m

5. Parallelogram

$b = 18$ in.

$h = 2\frac{1}{2}$ in.

6. Parallelogram

$b = 20$ ft

$h = 3$ yd

7. The area of the parallelogram is 105 cm². What is the base of the parallelogram?

7 cm

b
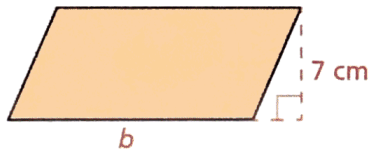
8. The area of the rhombus is 216 in.². What is the height of the rhombus?

h

18 in.
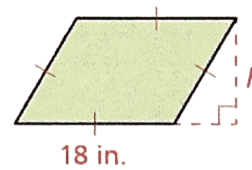
9. Benjamin's garden is shaped like a rhombus. The area of his garden is 336 square feet. The height of the rhombus that represents his garden is 16 feet. What is the base of the rhombus?

10. A rhombus has a base of 5.2 meters and a height of 4.5 meters. The rhombus is divided into two identical triangles. What is the area of each triangle?

Name __June 3__

The **base of a triangle** can be any side of the triangle. The **height of a triangle** is the length of the perpendicular distance from the opposite vertex to the base.

The area of a triangle can be found using the formula $A = \frac{1}{2}bh$.

1. For each triangle, write the base and the height.

base: _____   base: _____   base: _____
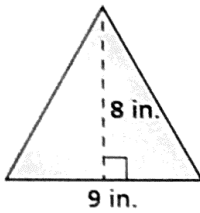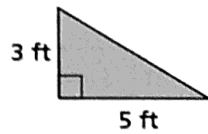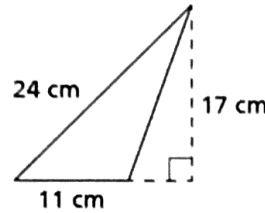
height: _____   height: _____   height: _____

2. The two identical triangles shown form one parallelogram.

The lengths of the base of each triangle and of the parallelogram are the _____ . So, the base of the parallelogram is _____ .

The heights of each triangle and of the parallelogram are the _____ . So, the height of the parallelogram is _____ .
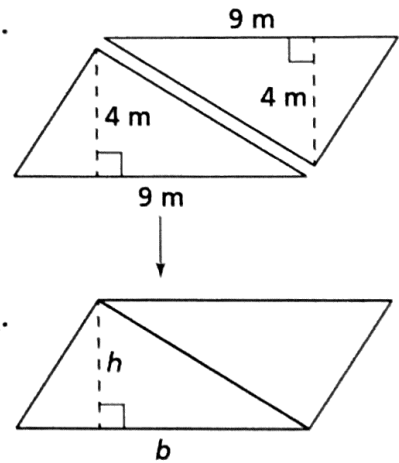
3. The formula for the area, A, of a parallelogram is

$A =$ _____ $\times$ _____ .

So, the area of the parallelogram is _____ $\times$ _____ ,

or _____ .

4. The area of each triangle is _____ the area of the parallelogram.

So, what is the area of each triangle? _____

On the Back!

5. Find the area of a triangle with $b = 100$ ft and $h = 100$ ft.

Name: **June 3**

7-2 Additional Practice

Scan for Multimedia

In **1–9**, find the area of each triangle.

1.

9 in.

10 in.

2.

25 cm   18 cm

12 cm

3.

13 m

16 m
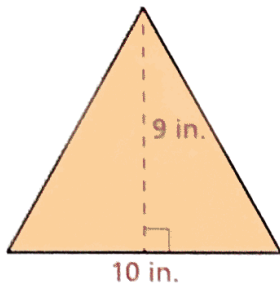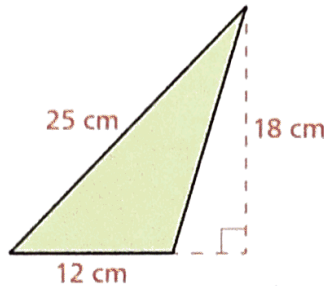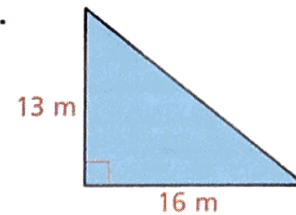
4. Triangle

$b = 30$ m

$h = 15.6$ m

5. Triangle

$b = 18$ in.

$h = 6\frac{1}{2}$ in.

6. Triangle

$b = 8$ yd

$h = 3$ yd

7. Triangle

$b = 11$ ft

$h = 7$ ft

8. Triangle

$b = 200$ cm

$h = 100$ cm

9. Triangle

$b = 14.2$ in.

$h = 7$ in.

10. Pedro is building a playground in the shape of a right triangle. He wants to know the area of the playground to decide how much sand to buy. What is the area of the playground?

$4\frac{1}{3}$ yd

18 yd

11. The dimensions of a clock face are shown below. Find the area of the clock face.

23 cm

30 cm
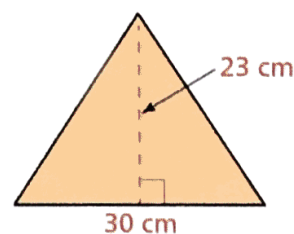
12. Be Precise The base of a triangle is 4.4 m. The height of the triangle is 250 cm. What is the area of the triangle in square meters? MP.6

13. The vertices of a triangle are $A(4, 1)$, $B(9, 1)$, and $C(2, 5)$. What is the area of this triangle?

Name _____June 4_____

A **trapezoid** is a quadrilateral with only one pair of opposite sides that are parallel.
A **kite** is a quadrilateral with two pairs of adjacent sides that are equal in length.

1. Is the quadrilateral at the right a trapezoid, a kite, or both?

_____

6 in.
5 in.
2 in.
|⟵ 10 in. ⟶|
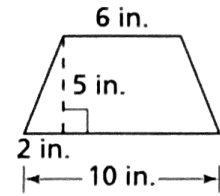
2. To find the area of the trapezoid at the right, decompose

it into one _____ and one _____ .

6 yd
5 yd
8 yd

3. **Rectangle:**
The shorter base of the trapezoid is 6 yd.
So, the length of the rectangle is _____ .

The height of the trapezoid is 5 yd.
So, the width of the rectangle is _____ .

Triangle:
The height of both the trapezoid and the

triangle is _____ .
Subtract the bases of the trapezoid to find the

base of the triangle. 8 − _____ = _____ yd.
Label the shapes at the right by writing on the blank lines.
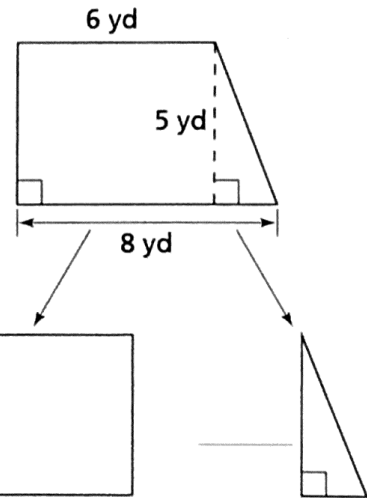
4. Find the areas of the rectangle and the triangle.

Rectangle

$A = \ell \times$ _____

$A =$ _____ $\times$ _____ $=$ _____ yd^2

Triangle

$A = \frac{1}{2} \times$ _____ $\times h$

$A = \frac{1}{2} \times$ _____ $\times$ _____ $=$ _____ yd^2

5. The area of the trapezoid is the sum of the areas of the rectangle

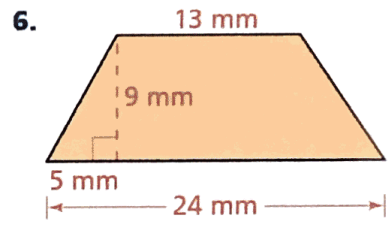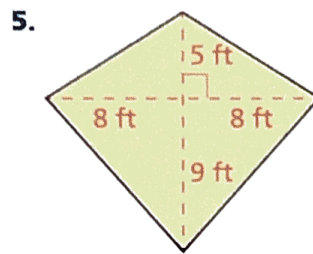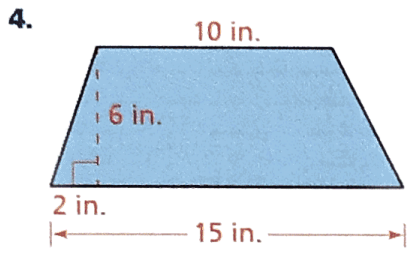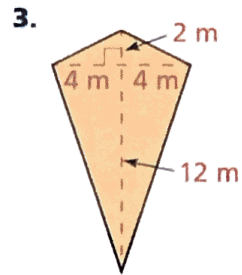and the triangle. The area of the trapezoid is _____ yd^2.

On the Back!

6. Find the area of the kite.

3 m
3 m
10 m
1 m
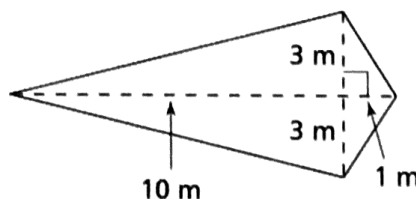
7-3 Additional Practice

In 1–6, find the area of each trapezoid or kite.

1.
3 cm
4 cm
1 cm
5 cm

2.
2 cm
5 cm
5 cm
8 cm
10 cm

3.
2 m
4 m   4 m
12 m

4.
10 in.
6 in.
2 in.
15 in.

5.
5 ft
8 ft   8 ft
9 ft

6.
13 mm
9 mm
5 mm
24 mm
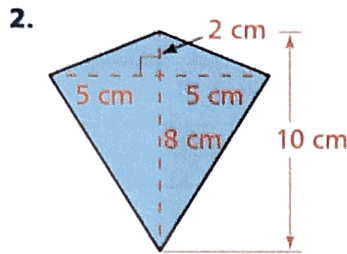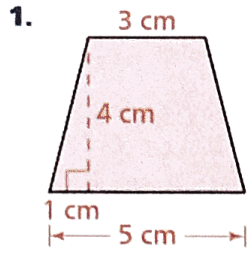
7. A desktop has the shape of a trapezoid. What is the area of the desktop?

36 in.
30 in.
12 in.
60 in.
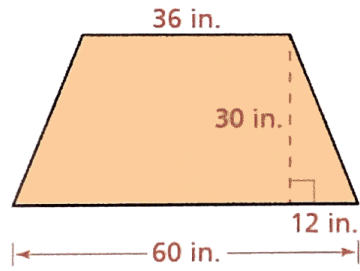
8. Kelsey cut pieces of fabric in the shape of kites for a quilt. One piece is shown below. What is the area of the piece of fabric?

4 cm
6 cm
6 cm
8 cm
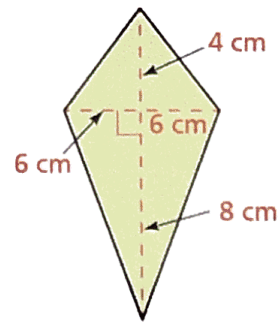
9. The area of the kite is 28 m². What is the value of x?

x m
4 m
x m   10 m
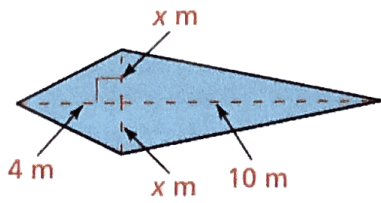
10. What is the area of the trapezoid below?

4 ft
4 ft
2 ft
8 ft