Grade 3 Unit 6 Module 1 Practice Pages for Math at Home

NAME _____ | DATE _____

Mixed Review: Fractions, Multiplication & Division

Solve each problem below. Show your work using numbers, sketches, or words.
Remember to label your answers with the correct units when you need to.

1 Robin and Cody are collecting stamps. Their stamp books are exactly the same size, with the same number of pages. Robin's stamp book is $\frac{2}{3}$ full. Cody's stamp book is $\frac{3}{4}$ full. Whose stamp book is more full? How do you know?

2 Robin has a page of her stamp book that is $\frac{1}{3}$ full. Cody has a page of his stamp book that is $\frac{2}{6}$ full. Whose page is more full? How do you know?

3 One of Robin's pages has 6 out of 12 spaces full.

a Write a fraction that represents how full the page is. _____

b Write another fraction that tells how full the page is. _____

4 On one page of Robin's stamp book, she has arranged her stamps in a 7-by-6 array. How many stamps are on this page?

5 On one page of Cody's stamp book, he has 54 stamps. The stamps are organized in 6 groups. How many stamps are in each group?
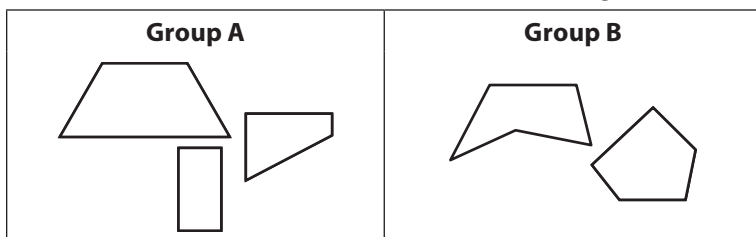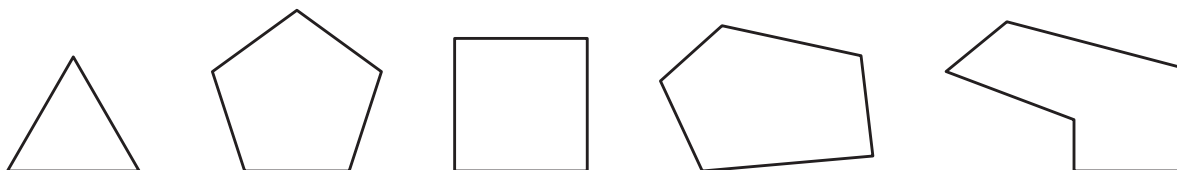
NAME _____ | **DATE** _____

Shape Sorting

1 Walt sorted some shapes into these two groups.
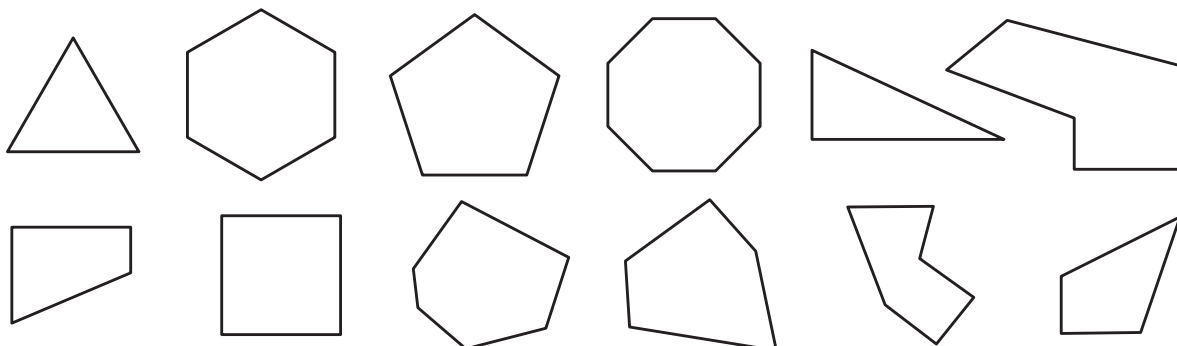
Group A	Group B

a Circle the shapes that belong in group B.

b What do the shapes in group B have in common?

2 How can you tell if a shape is a hexagon?

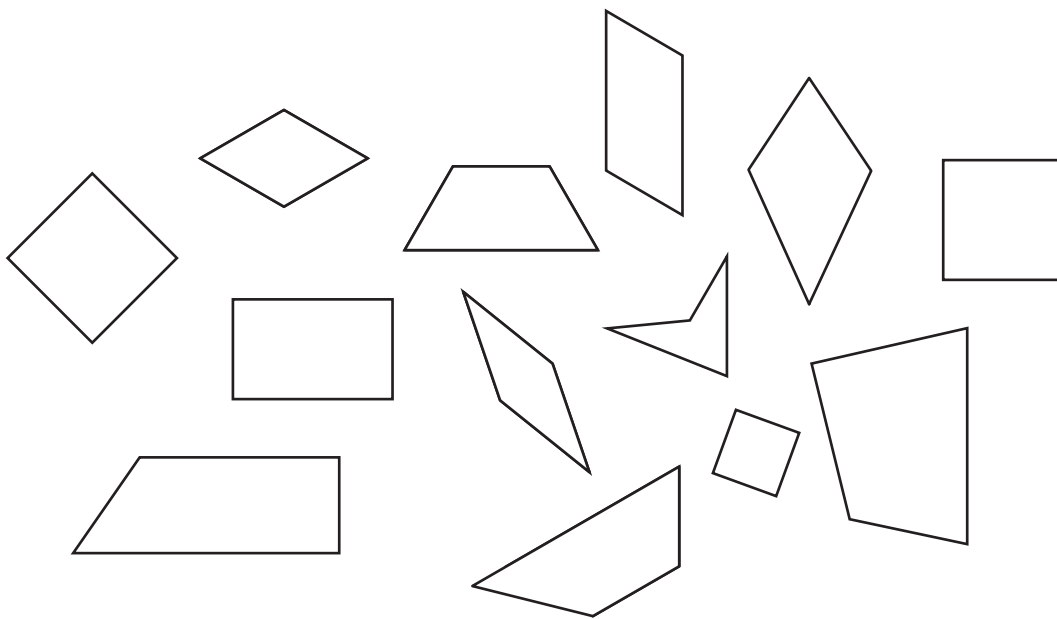**a** Circle all the hexagons.

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Attributes of Quadrilaterals

1 Identify some of the attributes of the quadrilaterals below. Follow these instructions:

- Draw a blue loop around each shape that has 2 pairs of parallel sides.
- Make a red dot inside each shape that has at least 2 right angles.
- Draw a smiley face inside each square.
- Make a green dot inside each shape that has exactly 1 pair of parallel sides.
- Draw an X above each shape that has 4 sides that are exactly the same length.
- Draw a purple loop around each trapezoid.

2 Multiply.

3	4	5	8	6	2	10
× 8	× 4	× 6	× 4	× 6	× 8	× 7

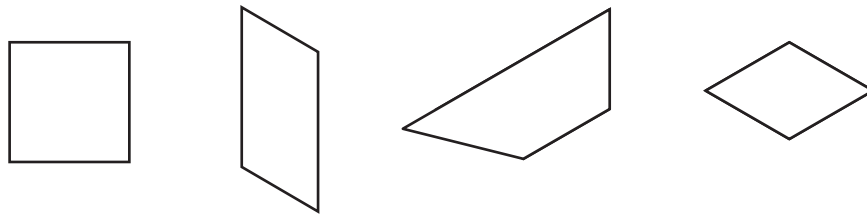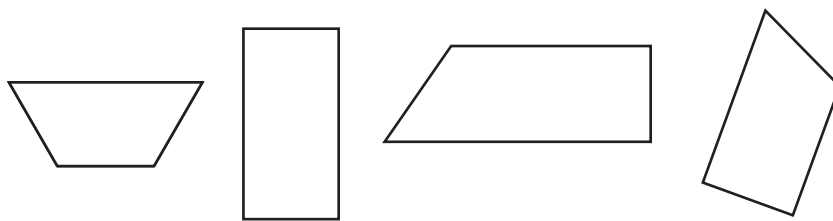| 7	5	1	3	0	9	4
× 3	× 5	× 9	× 6	× 10	× 3	× 6

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Quadrilaterals

1 Cross out the figure that is *not* a parallelogram.

2 Cross out the figure that is *not* a trapezoid.

3 How is a trapezoid like a parallelogram? Use labeled sketches and words to explain.

4 How are a trapezoid and a parallelogram different? Use labeled sketches and words to explain.

5 Solve the following problems.

39	278	54	108	379	914	19	635
+ 141	+ 46	+ 525	+ 52	+ 21	+ 36	+ 417	+ 45

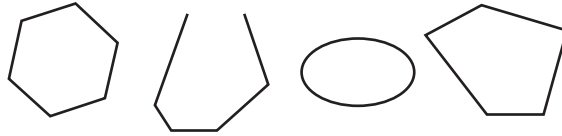| 872	143	87	105	121	243	216	87
− 41	− 28	− 56	− 28	− 9	− 7	− 15	− 47

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🏠 Polygons

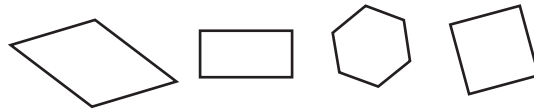**1** Two of the shapes below are polygons, and two are not.

  a Circle the two polygons.

  b Explain why the other two shapes are not polygons.

2 Three of the shapes below are quadrilaterals, and one is not.

  a Circle the three quadrilaterals.

  b Draw two quadrilaterals that are not the same types as those you just circled.

3 Multiply.

5	7	3	4	6	2	4
× 6	× 3	× 8	× 5	× 6	× 9	× 7

10	9	4	7	7	10	7
× 6	× 3	× 8	× 5	× 6	× 9	× 7

4 **CHALLENGE** Multiply.

20	20	80	30	40	40	50
× 3	× 8	× 5	× 6	× 6	× 9	× 7

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🏠 Triangles & Two-Digit Addition Review page 1 of 2

1 What is the same about all of these triangles?

Mathematicians mark right angles with little squares like these.

All the triangles _____

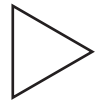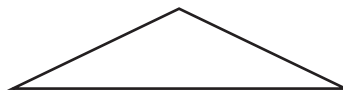**2 a** All of the triangles in group A have something in common. Fill in the circle next to the triangle that belongs with them.

Group A

○   ○   ○   ○
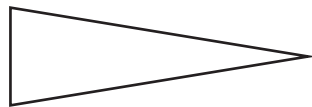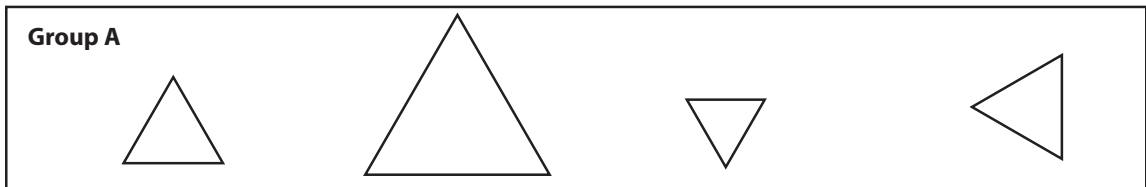
b How do you know the triangle you picked belongs in group A?

3 What do these three triangles have in common?

All of the triangles _____

(continued on next page)

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Triangles & Two-Digit Addition Review page 2 of 2

4 Add each pair of numbers. Show all your work.

60 + 35 = _____   27 + 61 = _____   36 + 45 = _____
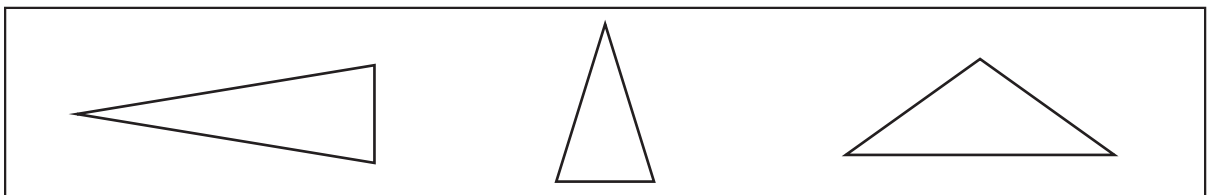
```
    53              48              42              79              98
  + 64            + 93            + 68            + 78            + 19
```

```
    65              58              21              95              67
  + 97            + 72            + 99            + 83            + 92
```

5 CHALLENGE Fill in the missing digits.

```
   ▢ 8           ▢ 4            ▢ ▢            8 7
 + 6 ▢         + 5 ▢          + 7 7          + ▢ ▢
 ▢ 0 3         ▢ 4 3          1 0 6          1 3 5
```

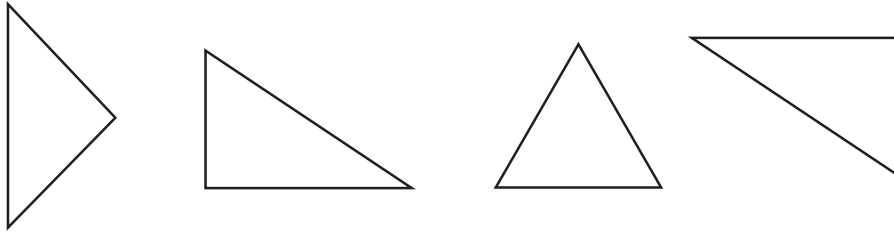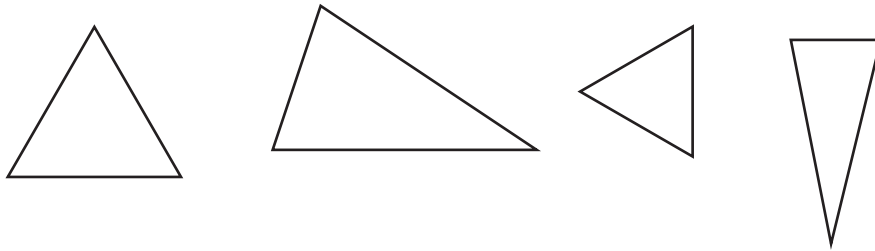## Triangles page 1 of 2

1 Circle the two triangles that are congruent. *Congruent* means exactly the same shape and size.

2 Circle the two triangles that are similar. *Similar* means exactly the same shape, but not necessarily the same size.

3 Add.

229	448	124	180	229	99	199
+ 71	+ 326	+ 255	+ 352	+ 71	+ 216	+ 699

4 Subtract.

162	148	97	108	203	261	448
− 31	− 23	− 65	− 28	− 87	− 15	− 150

5 Round each number to the nearest 10 and the nearest 100.

Number	Nearest 10	Nearest 100
342		
689		

Number	Nearest 10	Nearest 100
837		
906		

(continued on next page)

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Triangles page 2 of 2

6 Angie and Kara share a bedroom. They've been having trouble agreeing on who is doing her fair share of the cleaning. So they decided to lay a rope on the floor to divide the room in half. Each girl is responsible for keeping half the room clean and organized.

10 feet

10 feet
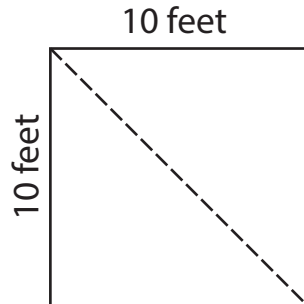
a The area of the whole room is _____ square feet. Show your work.

b The area of each girl's part of the room is _____ square feet. Show your work.

7 **CHALLENGE** Susie and her mother are planting a flower garden. It will be in the shape of a right triangle. They drew a diagram of the triangle and labeled the dimensions. How much area will the flower garden cover? Show your work.

35 feet

20 feet
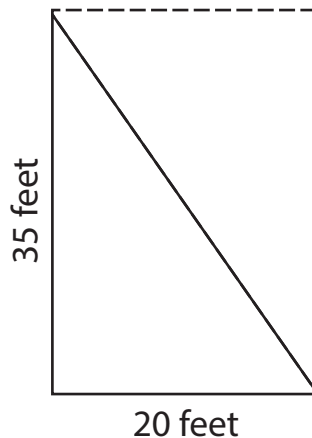
Answer Keys

NAME | **DATE**

Mixed Review: Fractions, Multiplication & Division

Solve each problem below. Show your work using numbers, sketches, or words. Remember to label your answers with the correct units when you need to.

1 Robin and Cody are collecting stamps. Their stamp books are exactly the same size, with the same number of pages. Robin's stamp book is $\frac{2}{3}$ full. Cody's stamp book is $\frac{3}{4}$ full. Whose stamp book is more full? How do you know?

Cody's stamp book is more full. Explanations will vary.

2 Robin has a page of her stamp book that is $\frac{1}{3}$ full. Cody has a page of his stamp book that is $\frac{2}{6}$ full. Whose page is more full? How do you know?

Cody's page and Robin's page are equally full. Explanations will vary.

3 One of Robin's pages has 6 out of 12 spaces full.

Responses will vary. Example

a Write a fraction that represents how full the page is. __**⁶⁄₁₂**__

b Write another fraction that tells how full the page is. __**½**__ **or other fraction equivalent to ⁶⁄₁₂**

4 On one page of Robin's stamp book, she has arranged her stamps in a 7-by-6 array. How many stamps are on this page?

42 stamps; work will vary.

5 On one page of Cody's stamp book, he has 54 stamps. The stamps are organized in 6 groups. How many stamps are in each group?

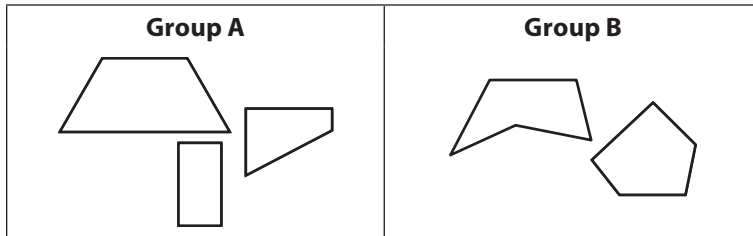**9 stamps in each group; work will vary.**

Shape Sorting
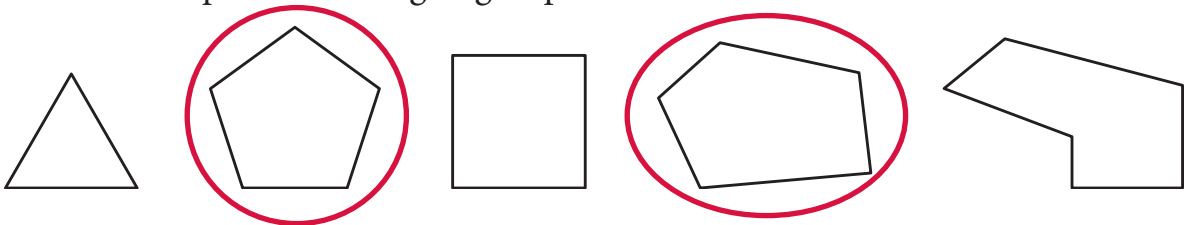
1   Walt sorted some shapes into these two groups.

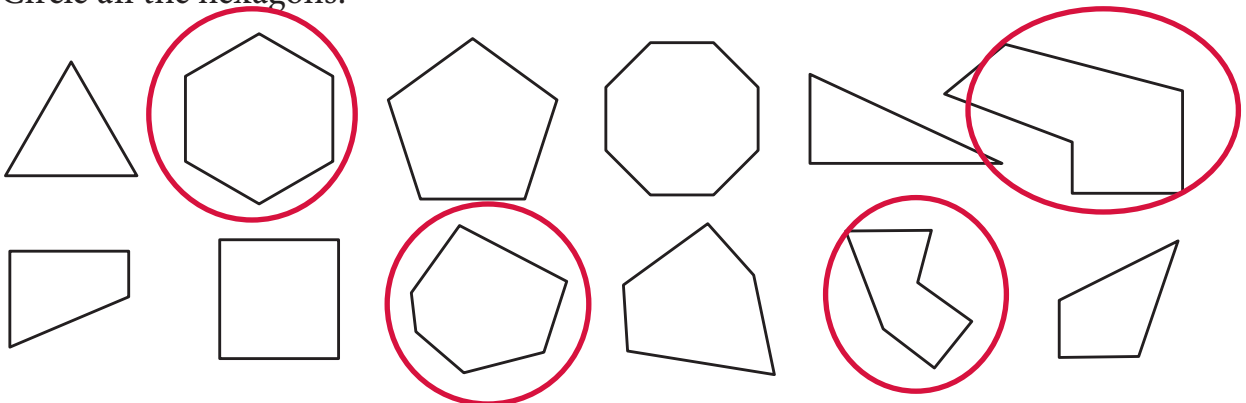| Group A	Group B

a   Circle the shapes that belong in group B.

b   What do the shapes in group B have in common?

They all have 5 sides.

2   How can you tell if a shape is a hexagon?

It must have 6 sides.
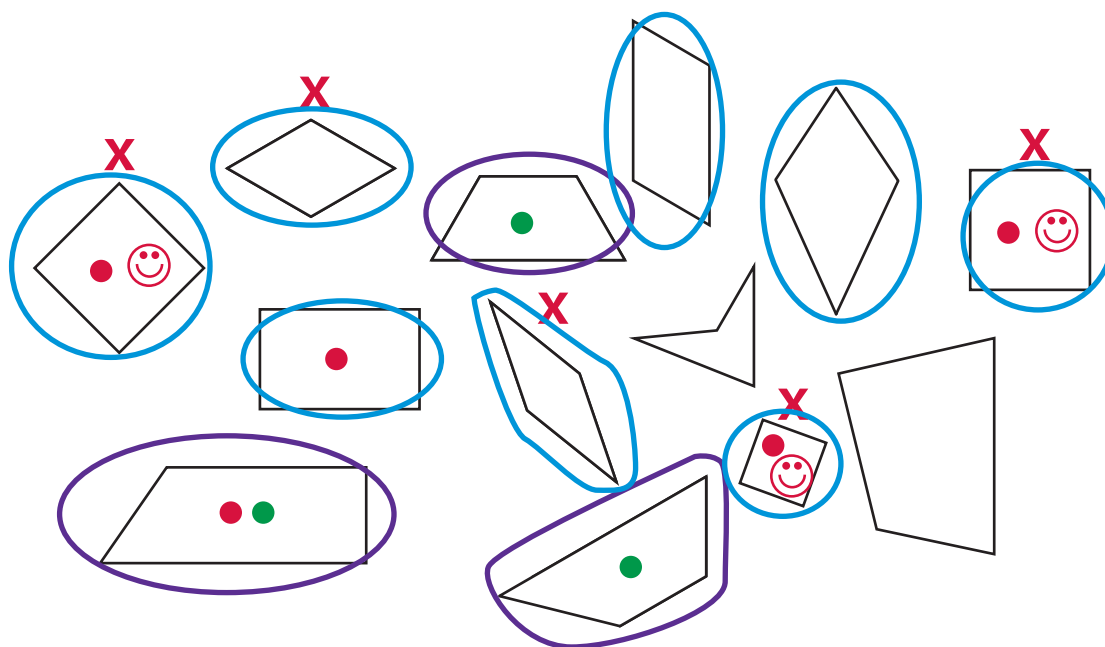
a   Circle all the hexagons.

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Attributes of Quadrilaterals

1 Identify some of the attributes of the quadrilaterals below. Follow these instructions:

- Draw a blue loop around each shape that has 2 pairs of parallel sides.
- Make a red dot inside each shape that has at least 2 right angles.
- Draw a smiley face inside each square.
- Make a green dot inside each shape that has exactly 1 pair of parallel sides.
- Draw an X above each shape that has 4 sides that are exactly the same length.
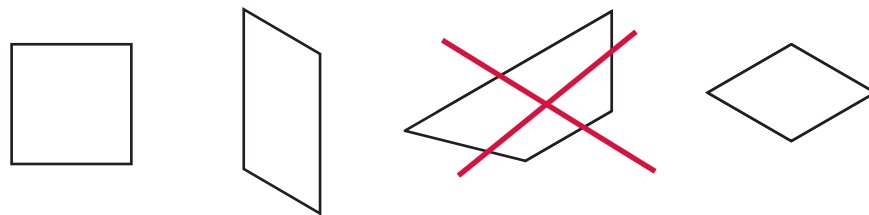- Draw a purple loop around each trapezoid.

2 Multiply.

3	4	5	8	6	2	10
× 8	× 4	× 6	× 4	× 6	× 8	× 7
24	**16**	**30**	**32**	**36**	**16**	**70**

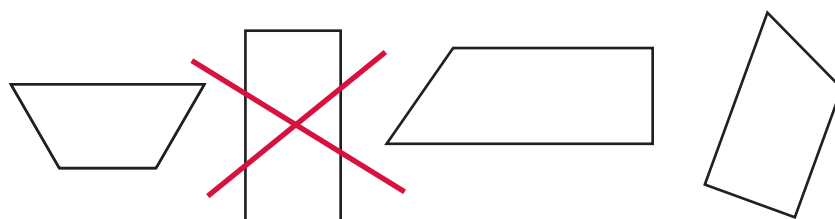| 7	5	1	3	0	9	4
× 3	× 5	× 9	× 6	× 10	× 3	× 6
21	**25**	**9**	**18**	**0**	**27**	**24**

NAME **| DATE**

Quadrilaterals

1 Cross out the figure that is *not* a parallelogram.

2 Cross out the figure that is *not* a trapezoid.

3 How is a trapezoid like a parallelogram? Use labeled sketches and words to explain.

Responses will vary. Example:
They both have 4 straight sides and 4 verticies.

4 How are a trapezoid and a parallelogram different? Use labeled sketches and words to explain.

Responses will vary. Example:
A trapezoid has exactly 1 pair of parallel sides. A parallelogram has exactly 2 pair of parallel sides.

5 Solve the following problems.

39	278	54	108	379	914	19	635
+ 141	+ 46	+ 525	+ 52	+ 21	+ 36	+ 417	+ 45
180	**324**	**579**	**160**	**400**	**950**	**436**	**680**

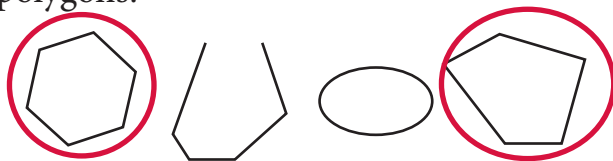| 872	143	87	105	121	243	216	87
− 41	− 28	− 56	− 28	− 9	− 7	− 15	− 47
831	**115**	**31**	**77**	**112**	**236**	**201**	**40**

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Polygons

1 Two of the shapes below are polygons, and two are not.
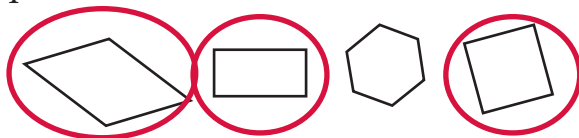
a Circle the two polygons.

b Explain why the other two shapes are not polygons.

Explanations will vary. Example:
Polygons have to be closed and have only straight sides.

2 Three of the shapes below are quadrilaterals, and one is not.

a Circle the three quadrilaterals.

b Draw two quadrilaterals that are not the same types as those you just circled.

Responses will vary. Example:

3 Multiply.

5	7	3	4	6	2	4
× 6	× 3	× 8	× 5	× 6	× 9	× 7
30	**21**	**24**	**20**	**36**	**18**	**28**

10	9	4	7	7	10	7
× 6	× 3	× 8	× 5	× 6	× 9	× 7
60	**27**	**32**	**35**	**42**	**90**	**49**

4 **CHALLENGE** Multiply.

20	20	80	30	40	40	50
× 3	× 8	× 5	× 6	× 6	× 9	× 7
60	**160**	**400**	**180**	**240**	**360**	**350**

Triangles & Two-Digit Addition Review page 1 of 2
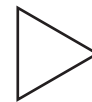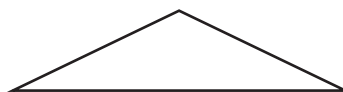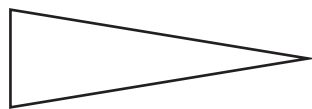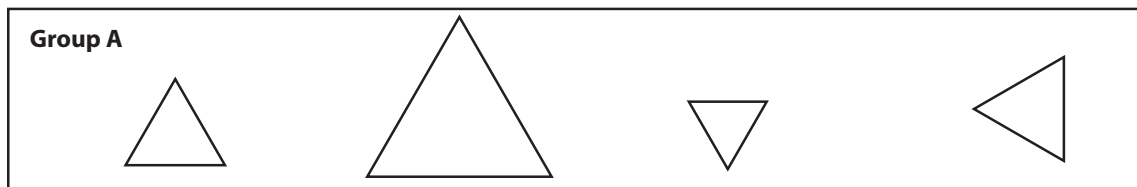
1 What is the same about all of these triangles?

Mathematicians mark right angles with little squares like these.
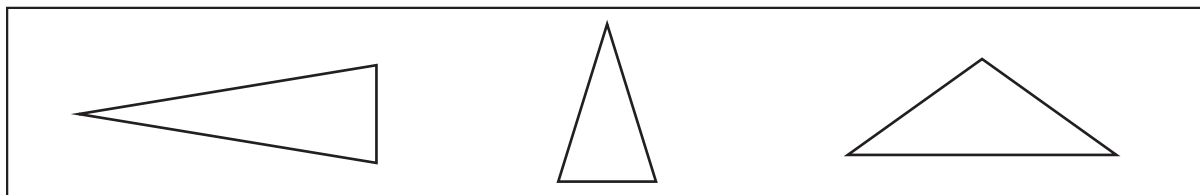
All the triangles _____ **have one right angle.** _____

2 a All of the triangles in group A have something in common. Fill in the circle next to the triangle that belongs with them.

Group A

○   ○   ○   ●

b How do you know the triangle you picked belongs in group A?

Explanations will vary. Example:
It has three equal sides.

3 What do these three triangles have in common?

All of the triangles _____ **have two equal sides.** _____

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Triangles & Two-Digit Addition Review page 2 of 2

4 Add each pair of numbers. Show all your work.

60 + 35 = __**95**__   27 + 61 = __**88**__   36 + 45 = __**81**__

Work will vary.

53	48	42	79	98
+ 64	+ 93	+ 68	+ 78	+ 19
117	**141**	**110**	**157**	**117**

Work will vary.

65	58	21	95	67
+ 97	+ 72	+ 99	+ 83	+ 92
162	**130**	**120**	**178**	**159**

Work will vary.

5 **CHALLENGE** Fill in the missing digits.

```
  3 8          8 4          2 9            8 7
+ 6 5        + 5 9        + 7 7          + 4 8
-----        -----        -----          -----
1 0 3        1 4 3        1 0 6          1 3 5
```

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🏠 Triangles page 1 of 2

1 Circle the two triangles that are congruent. *Congruent* means exactly the same shape and size.

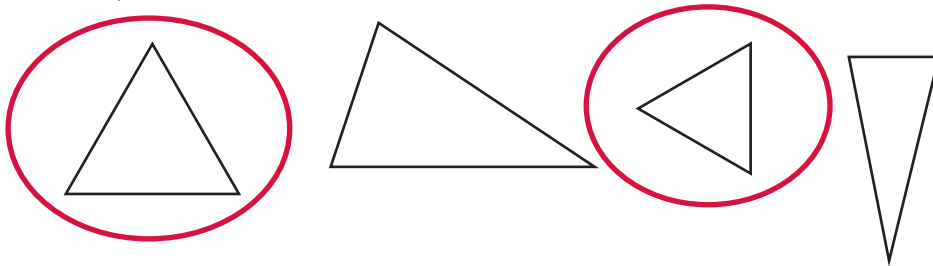**2** Circle the two triangles that are similar. *Similar* means exactly the same shape, but not necessarily the same size.

3 Add.

229	448	124	180	229	99	199
+ 71	+ 326	+ 255	+ 352	+ 71	+ 216	+ 699
300	**774**	**379**	**532**	**300**	**315**	**898**

4 Subtract.

162	148	97	108	203	261	448
− 31	− 23	− 65	− 28	− 87	− 15	− 150
131	**125**	**32**	**80**	**116**	**246**	**298**

5 Round each number to the nearest 10 and the nearest 100.

Number	Nearest 10	Nearest 100
342	**340**	**300**
689	**690**	**700**

Number	Nearest 10	Nearest 100
837	**840**	**800**
906	**910**	**900**

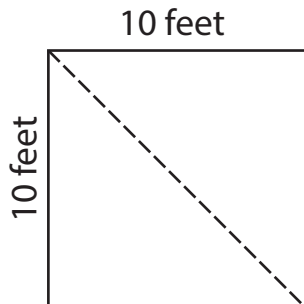*(continued on next page)*

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Triangles page 2 of 2

6 Angie and Kara share a bedroom. They've been having trouble agreeing on who is doing her fair share of the cleaning. So they decided to lay a rope on the floor to divide the room in half. Each girl is responsible for keeping half the room clean and organized.
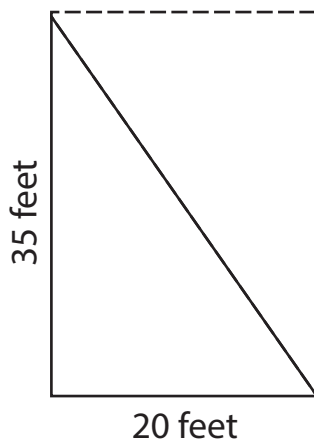
10 feet

10 feet

a The area of the whole room is __**100**__ square feet. Show your work.

Work will vary.

b The area of each girl's part of the room is __**50**__ square feet. Show your work.

Work will vary.

7 **CHALLENGE** Susie and her mother are planting a flower garden. It will be in the shape of a right triangle. They drew a diagram of the triangle and labeled the dimensions. How much area will the flower garden cover? Show your work.

35 feet

20 feet

350 sq. ft.; work will vary.