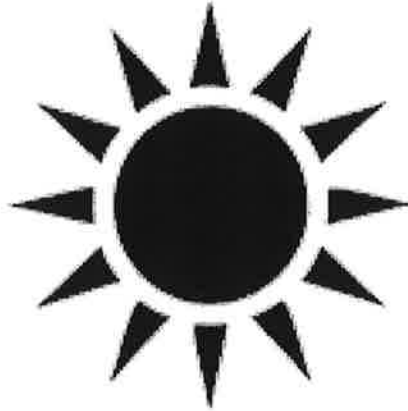# NTI DAY 24

Harrison County Schools

Name: _____

Grade: **3**

Teacher: _____

Complete within 2 weeks of returning to school.

NTI 24
Reading Directions

1. Choose either the desert grasshopper or the gray whale and complete the page.
- Remember to:
  ○ Restate each question.
  ○ Write in complete sentences.
2. Color the picture.

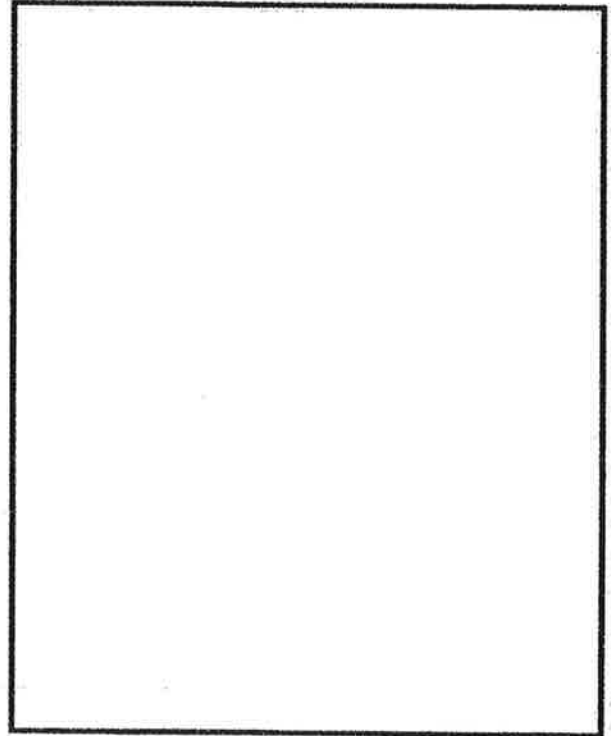# The Journey: Stories of Migration

Desert Grasshopper

Describe the appearance of the Desert Grasshopper.

Where do they live?

Where do they migrate?

Draw a picture of the Desert Grasshopper. Label the picture.

How do they migrate?

Why do they migrate?

The Journey: Stories of Migration

Gray Whale

Describe the appearance of the Gray Whale.

Where do they live?

Where do they migrate?

How do they migrate?

Why do they migrate?
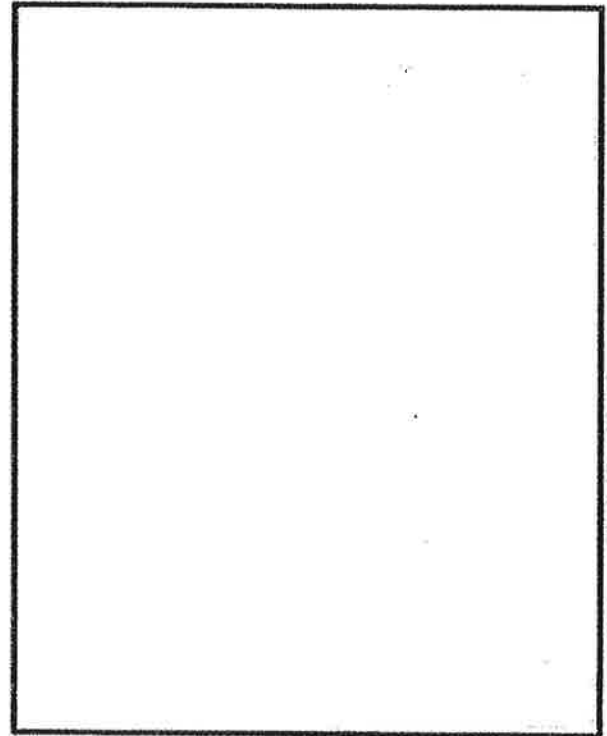
Draw a picture of the Gray Whale.
Label the picture.

Name _____

Solve & Share

Jon has 16 feet of wood that he uses to make a sandbox that has 4 sides. He makes sides with lengths of 6 feet, 5 feet, and 3 feet. What length should he make the fourth side in order to use all 16 feet of the wood? *Solve this problem any way you choose.*

I can ...
find the unknown length of a polygon by using a known perimeter.

Content Standard 3.MD.D.8
Mathematical Practices MP.1, MP.2, MP.3, MP.4, MP.7

Use reasoning to show how the perimeter and given side lengths are related.

5 ft

3 ft

? ft

6 ft
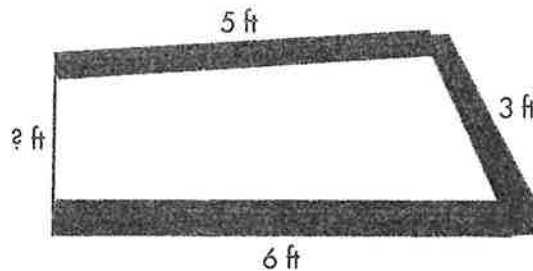
Look Back! © MP.1 Make Sense and Persevere Describe the plan you used to solve the problem.

Lilia is making a decoration out of straws and cloth, with lace around the outside. How long should she cut the fourth straw to use all of the lace?

4 in.   x in.

6 in.   8 in.
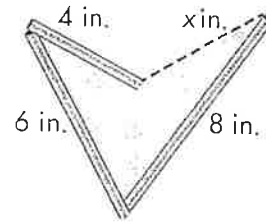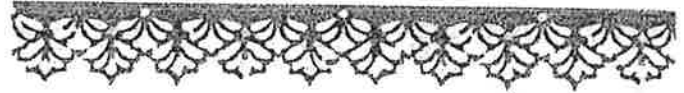
Lilia has 22 inches of lace

Lilia needs to find the length that will give the shape a perimeter of 22 inches.

Draw a bar diagram and write an equation.

Let x = the length of the missing side.

The perimeter of the shape is 22 inches.

22			
8	6	4	x
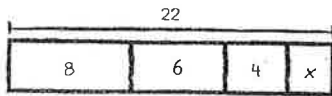
$x + 8 + 6 + 4 = 22$

$x + 18 = 22$

Solve.

$x + 18 = 22$

Think: What plus 18 equals 22?

$4 + 18 = 22$, so $x = 4$.

So, the fourth side should be 4 inches long.

You can also use subtraction to find $22 - 18 = 4$.

Convince Me! ⊕ **MP.7 Look for Relationships** If Lilia had 25 inches of lace, how would the length of the fourth straw change? Explain how to solve.

⭐ Guided Practice*

Do You Understand?

1. ◎ **MP.3 Construct Arguments** In the problem on page 860, why does $x + 8 + 6 + 4$ equal the perimeter, 22 inches?

2. ◎ **MP.4 Model with Math** Write an equation you could use to find the length of the missing side of this triangle with a perimeter of 23 cm. Then solve.

x cm
3 cm
8 cm
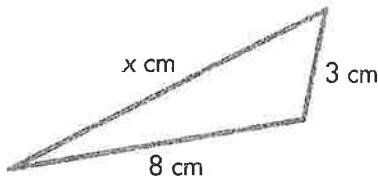
Do You Know How?

In **3** and **4**, find the length of the missing side for each polygon so it has the perimeter given.

3. perimeter = 30 cm

8 cm
x cm
12 cm
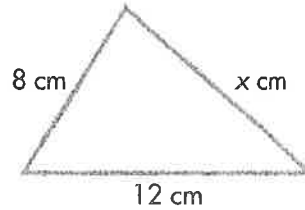
4. perimeter = 25 ft

4 ft   4 ft
7 ft   7 ft
s ft
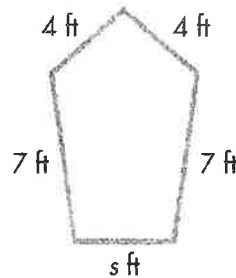
Independent Practice*

In **5–10**, find the length of the missing side for each polygon so it has the perimeter given.

5. perimeter = 24 in.

6 in.
n in.
8 in.

6. perimeter = 30 m

x m
9 m
4 m
12 m

7. perimeter = 37 yd

x yd
9 yd   9 yd
5 yd

8. perimeter = 37 cm

x cm
7 cm   7 cm
14 cm
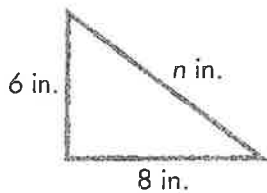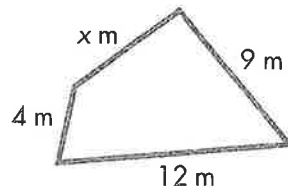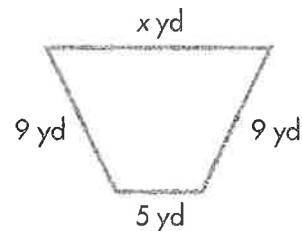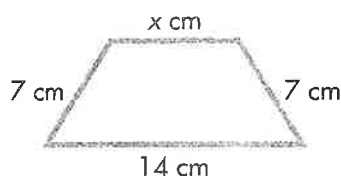
9. perimeter = 18 ft

7 ft   7 ft
x ft

10. perimeter = 32 in.
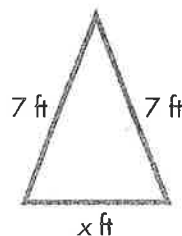
3 in.
6 in.   6 in.
6 in.   6 in.
x in.
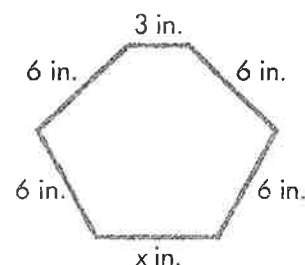
Math Practices and Problem Solving

11. **MP.3 Construct Arguments** These plane figures each have equal sides that are whole numbers. One figure has a perimeter of 25 inches. Which could it be? Explain.

12. **Math and Science** Letitia did an experiment to see if giving more or less water was better for her plants. She gave one plant 40 mL of water once a day. She gave another plant 80 mL of water once a day. How much more water did the second plant get in one week?

13. **MP.1 Make Sense and Persevere** Mason has 18 feet of wood to frame a window. He wants the window to be in the shape of a rectangle 3 feet wide. What should be the length? Tell how you know your answer is correct.

14. **MP.2 Reasoning** Novak's room is shown below. It has a perimeter of 52 feet. Tell how to use an equation to find the missing length in Novak's room.

13 ft
x ft
13 ft
3 ft
7 ft
10 ft
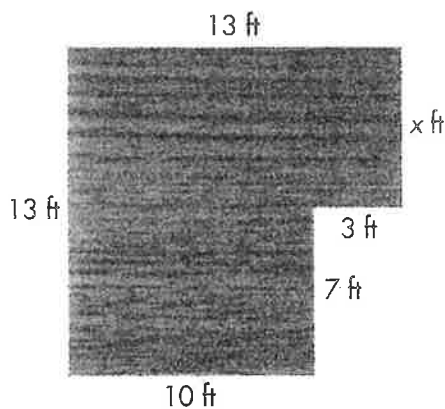
15. **Higher Order Thinking** The table show the lengths of pipe Sonya has to make a picture frame. She wants the frame to have 5 sides and a perimeter of 40 inche Draw and label a diagram of a possible picture frame Sonya could make.

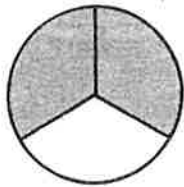| Pipe Length	Number of Pieces
6 inches	2
8 inches	2
10 inches	2
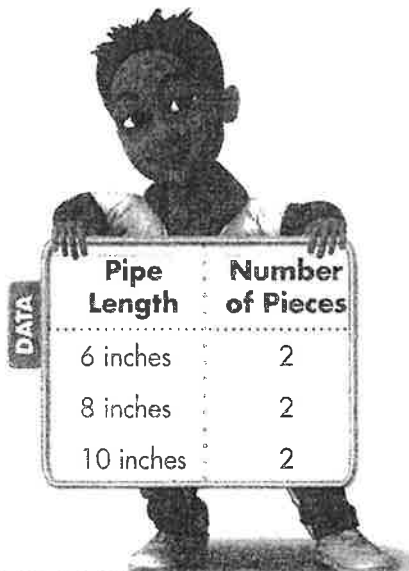
Common Core Assessment

16. The quadrilateral at the right has a perimeter of 28 cm. Write and solve an equation to find the length of the missing side. Then write the side length in the box.
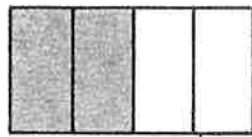
11 cm
3 cm
cr
9 cm
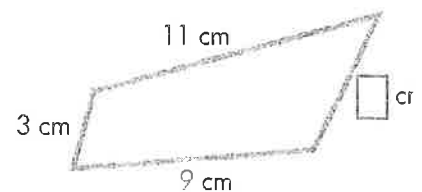
Halves, Thirds, Fourths

$\dfrac{2 \text{ colored parts}}{3 \text{ equal parts}}$

$\dfrac{2 \text{ colored parts}}{4 \text{ equal parts}}$

$\dfrac{3 \text{ colored parts}}{4 \text{ equal parts}}$

$\dfrac{2}{3}$

$\dfrac{2}{4}$
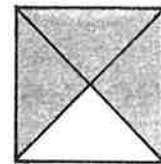
$\dfrac{3}{4}$

Circle the fraction for the colored area.

A.
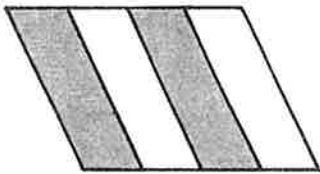
$\dfrac{2}{3}$ $\left(\dfrac{2}{4}\right)$ $\dfrac{3}{4}$

B.
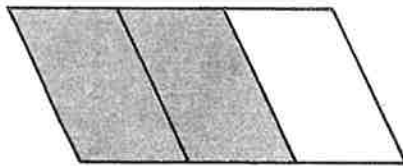
$\dfrac{2}{3}$ $\dfrac{3}{4}$ $\dfrac{2}{4}$

C.
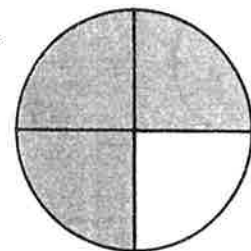
$\dfrac{3}{4}$ $\dfrac{2}{3}$ $\dfrac{2}{4}$

D.
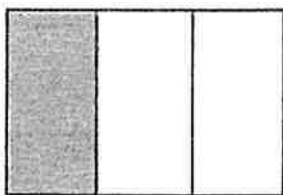
$\dfrac{1}{3}$ $\dfrac{3}{4}$ $\dfrac{2}{3}$

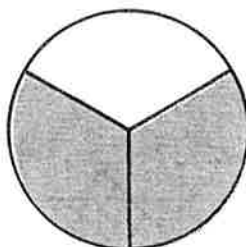**E.**
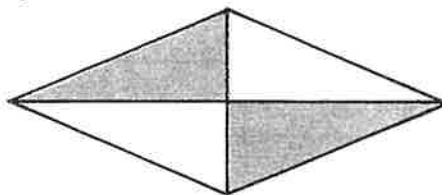
$\dfrac{2}{3}$ $\dfrac{3}{4}$ $\dfrac{2}{4}$

F.
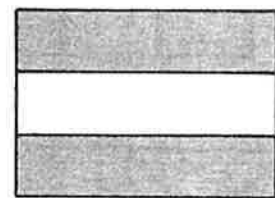
$\dfrac{3}{4}$ $\dfrac{2}{4}$ $\dfrac{2}{3}$
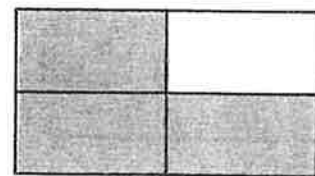
G.
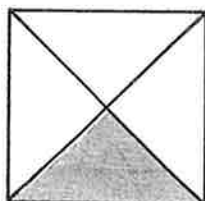
$\dfrac{1}{3}$ $\dfrac{1}{4}$ $\dfrac{2}{4}$
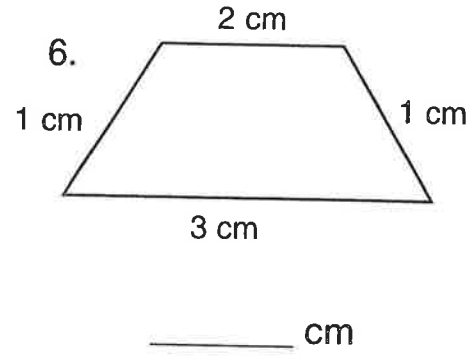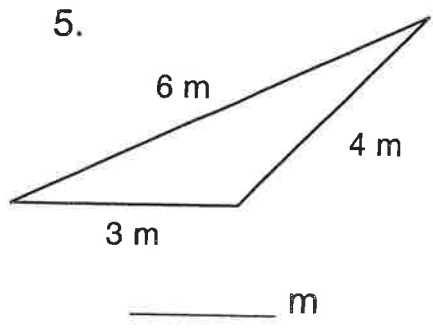
H.

$\dfrac{2}{4}$ $\dfrac{3}{4}$ $\dfrac{2}{3}$

I.

$\dfrac{3}{4}$ $\dfrac{2}{3}$ $\dfrac{2}{4}$
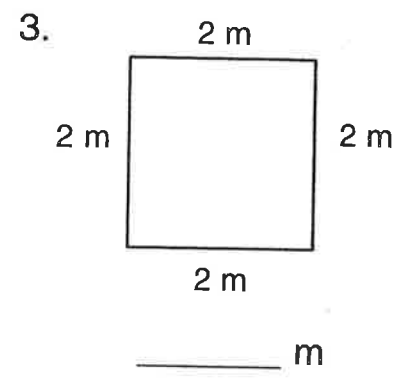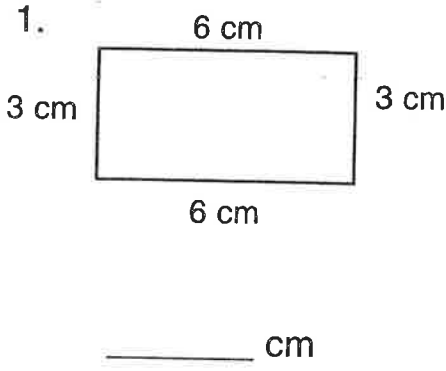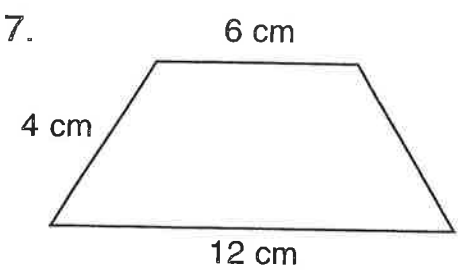
Name_____

All the Way Around

The distance around a figure is called the *perimeter.* Find the perimeter of each figure below.

1.

6 cm
3 cm   3 cm
6 cm

_____ cm

2.

1 cm   1 cm
1 cm   1 cm
1 cm   1 cm
1 cm   1 cm

_____ cm

3.

2 m
2 m   2 m
2 m

_____ m

4.

3 cm
5 cm
2 cm
4 cm

_____ cm

5.

6 m
4 m
3 m

_____ m

6.

2 cm
1 cm   1 cm
3 cm

_____ cm

Fill in the blanks.

7.

6 cm
4 cm
12 cm
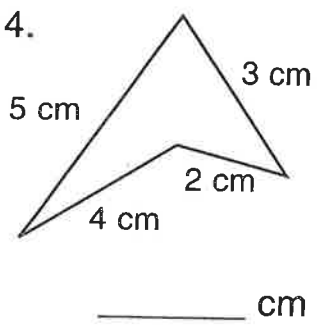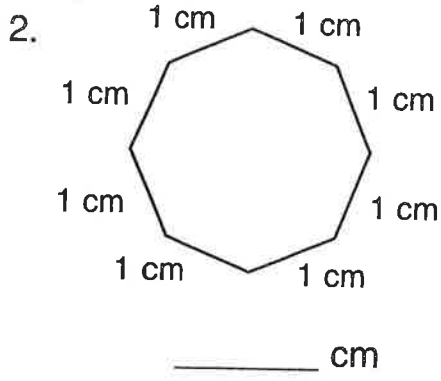
The perimeter is 26 cm.
The missing side is _____ cm.

8.

6 m
8 m   4 m
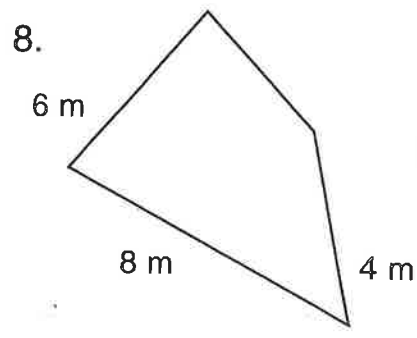
The perimeter is 20 m. The missing side is _____ m.

9.

2 m
2 m
2 m

The perimeter is _____ m.
The missing side is _____ m.

10.

10 m
3 m
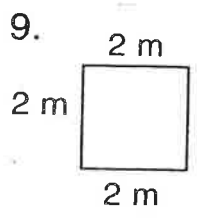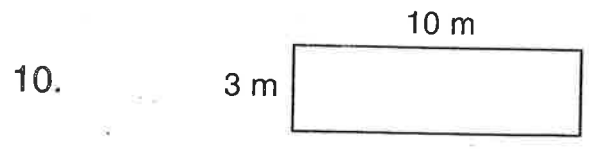
The perimeter is _____ m.
The missing sides are _____ m and _____ m.

Social/Emotional Learning – Social Skills
3rd Grade

Name: _____

Directions: Social skills help us play and work together peacefully. Identifying emotions, being a good listener, cooperating (sharing, taking turns), using empathy (thinking of how others feel), communicating, and using manners are all examples of social skills. Create a comic strip using social skills as the main point. Write one or two sentences at the bottom of the page describing your comic strip.

_____

_____

_____