

**AMERICAN MATH HW
WEEK OF 12MAY to 16MAY**

Due Date: 05/18 by midnight

Focus for the week: The focus of the HW this week is to be able to review topics on Data, Measurement, and Geometry.

Pacing guideline: Look at the page numbers at the bottom.

Monday – Pages 49 - 52

Tuesday - Problems 53-56

Wednesday - Problems 57-60

Thursday - Problems 61-64

Friday - Problems 65-68

Submission Instructions:

Upload homework on Archie and wait till you get the message – “**the file has been successfully uploaded**”. IF for any reason you have technical issues, get in touch with me as soon as possible.

IMPORTANT – Please show all your work for FULL CREDIT.

Note: Bring your homework to class everyday. I will discuss the HW from the previous day in every class. It is important to practice the assigned topics daily because the next day’s instruction builds on the previous lesson.

ANNOUNCEMENT – You have a test on Multiplication facts on Tuesday, May 13th. Review your times tables up to 12 in such a way that you are able to recall them to successfully able to finish 100 multiplication facts in 5 minutes.

Grade 4 FAST Mathematics Reference Sheet

Customary Conversions

1 foot = 12 inches

1 yard = 3 feet

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 pound = 16 ounces

Time Conversions

1 minute = 60 seconds

1 hour = 60 minutes

Formulas

Rectangle $P = l + l + w + w$
 $A = l \times w$

Metric Conversions

1 meter = 100 centimeters

1 meter = 1000 millimeters

1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 gram = 1000 milligrams

1 kilogram = 1000 grams

Key	
l = length w = width	P = perimeter A = area

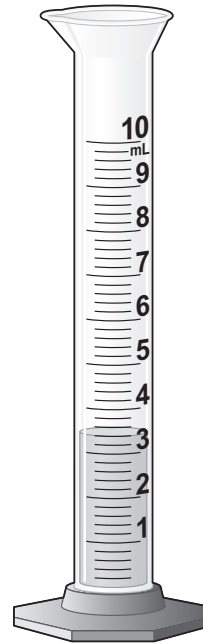
- 1** Which tool is BEST to measure the weight of a grape?

Ⓐ ruler
Ⓑ scale
Ⓒ beaker
Ⓓ thermometer

- 2** Vikki uses a scale to measure the weight of an apple in pounds. The hand on the scale points 2 marks past the mark labeled 0, and 6 marks before the mark labeled 1. What is the weight of the apple Vikki measures?

Ⓐ $\frac{2}{8}$ pound
Ⓑ $\frac{4}{8}$ pound
Ⓒ $\frac{6}{8}$ pound
Ⓓ $\frac{8}{8}$ pound

- 3** Anzari uses a graduated cylinder to measure liquid in milliliters (mL).



How much liquid does Anzari have in the graduated cylinder?

Ⓐ 3.0 mL Ⓒ 4.0 mL
Ⓑ 3.4 mL Ⓓ 4.3 mL

- 4** Which tool is BEST for measuring the given attribute for each object?
Draw a line from each description to the tool it matches.

distance around a tree trunk •

length of a classroom •

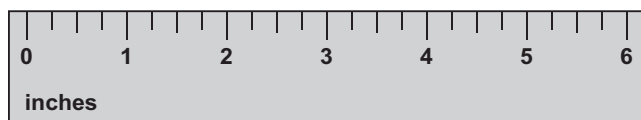
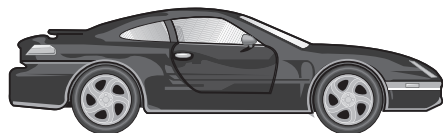
length of a cellphone •

• inch ruler

• meter stick

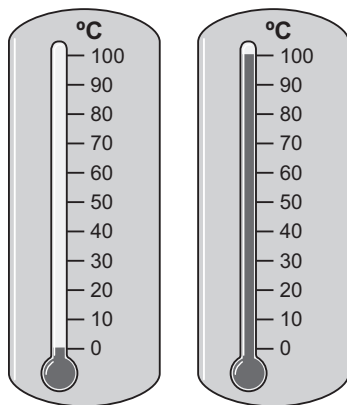
• tape measure

- 5** About how long is the toy car when measuring to the nearest half inch?



_____ inches

- 6** What is the difference in temperature?



- 7** Draw a line from each measurement unit to the tool it matches.

centimeters

•

scale

•

milliliters

•

graduated cylinder

•

degrees

•

thermometer

•

pounds

•

ruler

•

- 1** Ms. DeMarco estimates the height of her garage door by comparing it to another object. Which is the BEST object for her to use to estimate the height?

Ⓐ the width of a paper clip
Ⓑ the length of a baseball bat
Ⓒ the height of a license plate
Ⓓ the distance she can walk in two minutes

- 2** Greg wants to determine which liquid measures are equal.

Place an X in the table to show if the measurements are equal or not equal.

	Equal	Not equal
1 gallon = 6 pints		
1 pint = 2 cups		
1 quart = 2 pints		
1 cup = 4 quarts		
1 gallon = 4 quarts		

- 3** Kara adds 1 foot plus 24 inches and gets a total. Then, she determines which measurement is the same as this total. Which measurements are the same as this total?

Select **all** that apply.

Ⓐ 1 yard
Ⓑ 2 yards
Ⓒ 3 feet
Ⓓ 6 feet
Ⓔ 36 inches
Ⓕ 48 inches

- 4** Which of the following measurements is the same as 30 minutes?

Ⓐ one-half hour
Ⓑ one hour
Ⓒ one and one-half hours
Ⓓ two hours

- 5** Theo needs a drop of food coloring for a science experiment. Fill in the blank with the correct answer from the list to complete the sentence about measuring a drop of food coloring.

A drop of food coloring equals about _____.

1 liter 1 meter 1 milliliter 1 millimeter

- 6** A veterinarian weighs a puppy and notices that it weighs 3 pounds. How many ounces does this puppy weigh?

Ⓐ 30 ounces
Ⓑ 36 ounces
Ⓒ 48 ounces
Ⓓ 64 ounces

- 7** Mark practices for his music recital for 5 hours this week. How many minutes does Mark practice this week?

Ⓐ 120 minutes
Ⓑ 180 minutes
Ⓒ 240 minutes
Ⓓ 300 minutes

- 8** George is making a list to show equivalent metric lengths.

Fill in the blanks with the correct metric equivalent.

2 meters = _____ millimeters

4 meters = _____ centimeters

7 centimeters = _____ millimeters

3 kilometers = _____ meters

- 9** Kylie threw a football 30 yards in a game. How many feet did she throw the football?

Ⓐ 90 feet
Ⓑ 180 feet
Ⓒ 300 feet
Ⓓ 1,080 feet

- 10** Ming wants to order the following metric units of length.

Fill in the blanks with the correct answers from the list to put them in order from LEAST to GREATEST.

Least

Greatest

_____ , _____ , _____ , _____

2,000 m

3 km

800,000 cm

1,000,000 mm

- 1** Patrick has a 1-yard long piece of fabric. He cuts 1 foot 3 inches from the length. How many inches of fabric does Patrick have now?
- (A) 12 inches
(B) 15 inches
(C) 18 inches
(D) 21 inches
-
- 2** Susana sells a bike for \$10.50, a lamp for \$3.20, and a purse for \$4.25 to a customer at her garage sale. The customer pays with a \$20 bill. How much money in change does Susana owe the customer?
- (A) \$6.30
(B) \$5.25
(C) \$3.05
(D) \$2.05
-
- 3** Wendy is training for a race. She ran 1 kilometer, walked 375 meters, and then ran 375 more meters. How far did Wendy run and walk?
- (A) 1,750 meters
(B) 1,740 meters
(C) 1,650 meters
(D) 1,250 meters
-
- 4** Kyle is practicing for a 3-mile race. His normal time is 23 minutes and 26 seconds. Yesterday it took him only 21 minutes and 38 seconds. How much faster was Kyle's time yesterday than his normal time?
- _____ minute(s) and
_____ second(s)
-
- 5** After selling some old books and toys, Gwen and Max have 5 one-dollar bills, 6 quarters, and 8 dimes. How much money do they have?
- (A) \$6.30
(B) \$6.80
(C) \$6.90
(D) \$7.30
-
- 6** Tran has \$5.82. He is saving for a video game that costs \$9.00. How much more money does Tran need to buy the game?
- (A) \$3.18
(B) \$3.28
(C) \$13.82
(D) \$14.82

- 7** Kylee, Gia, and Max each buy a ticket for the museum. Each ticket costs \$6.50. What is the total cost of the tickets?

\$ _____

- 8** Sandy cuts three pieces of yarn to use for her art project. One piece is 2 feet 3 inches long, one piece is 20 inches long, and one piece is 2 foot 6 inches long. What is the total length of the yarn?

Ⓐ 33 inches
Ⓑ 69 inches
Ⓒ 71 inches
Ⓓ 77 inches

- 9** Devonte compares the total distance of two different relay races. For the first race, 4 team members each run $\frac{3}{4}$ mile to complete the race. For the second race, 2 team members each run 1 mile to complete the race. Which race is a shorter total distance?

Circle the answers to correctly complete the sentences.

The

first
second

race is a shorter distance. It is

2

3

4

miles long, so it is

3

2

1

mile(s) shorter than the other race.

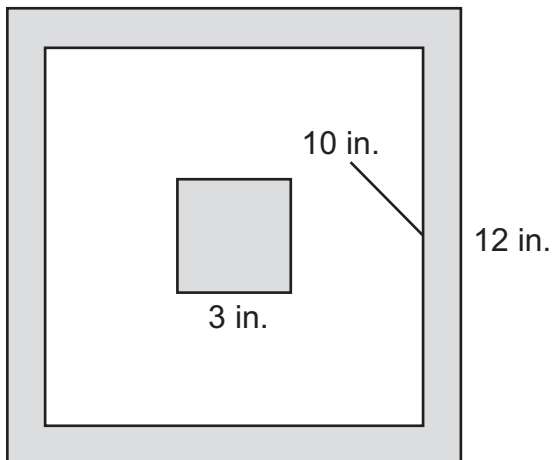
- 10** Keri went skateboarding with her friends at 11:15 a.m. They skateboarded for 1 hour and 10 minutes, and then they ate a snack for 27 minutes. What time did they finish their snack?

They finished their snack at _____ : _____ p.m.

- 1** Select **all** the rectangles with the given dimensions that would have a perimeter of 60 inches.

- (A) **length:** 12 inches **width:** 5 inches
(B) **length:** 15 inches **width:** 15 inches
(C) **length:** 20 inches **width:** 10 inches
(D) **length:** 27 inches **width:** 3 inches
(E) **length:** 30 inches **width:** 2 inches

- 2** Emily made a design using a small square, a medium square, and a large square. She shaded the small square and the outer region.



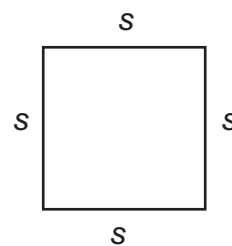
What is the area of the shaded part of the design in square inches?

- 3** The lunchroom at Diane's school has a perimeter of 300 feet. The width of the lunchroom is 85 feet. What is the length of the lunchroom in feet?

- (A) 50 feet (C) 75 feet
(B) 65 feet (D) 150 feet

- 4** Karlie painted a rectangular portrait. The height of the portrait is 14 inches. The width is half as long as the length. What is the area of the portrait in square inches?
- _____

- 5** Doug draws a model of his family garden. It is a perfect square. The perimeter of the garden is 20 feet.



What is the length of each side of the garden in feet?

- (A) 4 feet
(B) 5 feet
(C) 16 feet
(D) 25 feet

- 6** Joseph's notebook cover is 12 inches by 8 inches. He puts a wildlife sticker on the notebook cover. The sticker is 3 inches by 2 inches. How many square inches of the notebook cover are still showing?

Ⓐ 102 square inches
 Ⓑ 96 square inches
 Ⓒ 90 square inches
 Ⓓ 84 square inches

- 7** Wilma used 60 centimeters of lace to make a border around a rectangular card. The width of the card is 20 centimeters. What is the length of the card?

$$P = (2 \times \ell) + (2 \times w)$$

$$\underline{\hspace{2cm}} = (2 \times \ell) + (2 \times \underline{\hspace{2cm}})$$

$$\underline{\hspace{2cm}} = (2 \times \ell) + 40$$

$$20 = (2 \times \ell)$$

$$\underline{\hspace{2cm}} = \ell$$

Fill in the blanks with the correct numbers from the list to complete the solution.

10	15	20	30	40	60
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- 8** One wall of Patel's bedroom is 13 feet wide and 8 feet tall. A window on the wall is 3 feet high and 6 feet long. Which statements tell how to find the amount of wallpaper Patel would need to cover this wall?

Select **all** the correct answers.

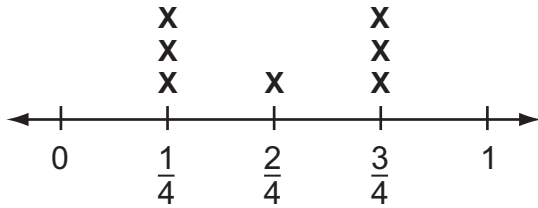
Ⓐ Add $13 + 8 + 3 + 6$.
 Ⓑ Add 13×8 and 3×6 .
 Ⓒ Subtract 18 from 13×8 .
 Ⓓ Subtract 3×6 from 13×8 .
 Ⓔ Subtract 8×6 from 13×3 .
 Ⓕ Subtract 13×8 from 3×6 .

- 9** Verna's family has a bicycle shed. The floor of the shed is a rectangle with a perimeter of 22 feet and an area of 30 square feet. Which statement correctly describes the floor of the shed?

Ⓐ It is 3 feet wide and 8 feet long.
 Ⓑ It is 22 feet wide and 30 feet long.
 Ⓒ It is 3 feet wide and 10 feet long.
 Ⓓ It is 6 feet wide and 5 feet long.

- 1** Carlos is looking at a line plot showing the length of the shadows of seven flowers.

Length of Shadows (in meters)



Place an X in the table to show if each statement is true or false.

	True	False
No flowers have a shadow that is $\frac{4}{4}$ meter long.		
An equal amount of flowers have a shadow that is $\frac{1}{4}$ meter and $\frac{3}{4}$ meter long.		
The total length of all of the shadows is greater than 4 meters.		
The difference between the longest and shortest shadow is $\frac{3}{4}$ meter.		

- 2** The table shows how many different beads Lisa and her friends each used to make necklaces. Lisa uses the table to make the stem-and-leaf plot.

Number of Different Beads							
12	33	10	14	24	26	31	37

What are the missing leaves Lisa needs to finish the stem-and-leaf plot?

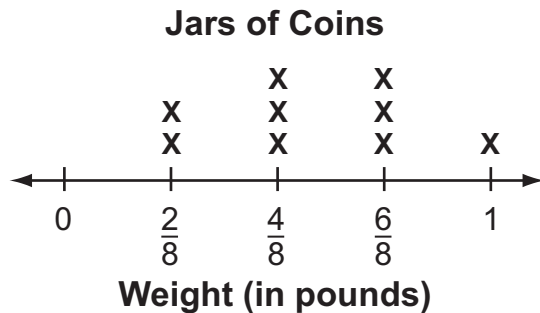
Select **all** the correct answers.

- (A) 1 (D) 6
 (B) 3 (E) 7
 (C) 4

Number of Different Beads

Stem	Leaves
1	0 2 4
2	4 6
3	

- 3** Esme collected coins in several jars. The line plot shows the weight of the coins in each jar.



How many pounds of coins did Esme collect?

- Ⓐ $4\frac{2}{8}$ pounds Ⓒ $5\frac{2}{8}$ pounds
Ⓑ $4\frac{4}{8}$ pounds Ⓓ $6\frac{1}{8}$ pounds

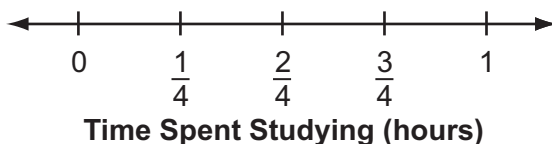
- 4** Leah does her homework each day after school. The data show the lengths of time Leah studied during the past two weeks.

Lengths of studying in hours:

$\frac{2}{4}, \frac{2}{4}, \frac{3}{4}, \frac{3}{4}, \frac{1}{4}, 1, \frac{3}{4}, \frac{3}{4}, 1, \frac{2}{4}$

Draw Xs on the line plot to represent the lengths of time Leah studied.

Study Time



- 5** Geoff went for a walk every day for 10 days. He recorded the distances he walked in a table.

Distance Walked (mi)				
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$

Fill in the table with the correct numbers from the list.

Distance Walked

Distance	Frequency
$\frac{1}{4}$	
$\frac{1}{2}$	
$\frac{3}{4}$	

2	3	4
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- 6** Samit and Jenni record their miniature golf scores: 58, 42, 55, 43, 50, 46, 51, 54, 49, 47. What fraction of their scores are greater than 50?
- _____

- 1** Charlie made this table to show the amount of rainfall his town had each month from March to September.

Month	Rainfall (in.)
March	$\frac{2}{8}$
April	$\frac{1}{8}$
May	$\frac{1}{8}$
June	$\frac{7}{8}$
July	$\frac{5}{8}$
August	$\frac{8}{8}$
September	$\frac{2}{8}$

What are the modes for the data in the table Charlie made?

- 2** Alec keeps track of his bowling scores using a stem-and-leaf plot.

Alec's Bowling Scores

Stem	Leaves
6	1 7 9
7	3 4 5 6 6
8	0 1 2 5 5 6
9	2 2 3 4 8

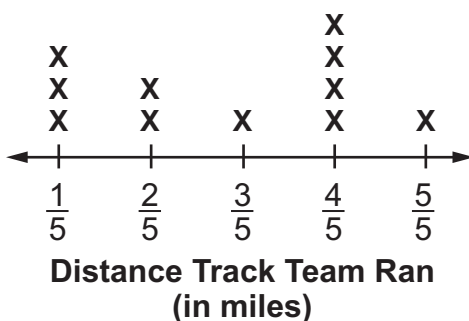
What are the modes?

Circle the numbers to correctly complete the sentence.

The modes of Alec's scores are

74	80	92
75	85	94
76	86	98

- 3** The coach of a track team drew this line plot to show how far each team member ran during warm-ups.



Part A

What is the range of the data shown in the line plot?

- Ⓐ $\frac{1}{5}$ mile Ⓒ $\frac{4}{5}$ mile
 Ⓑ $\frac{2}{5}$ mile Ⓓ $\frac{5}{5}$ mile

Part B

What is the median of the data shown in the line plot?

_____ mile

- 4** A local weather station recorded the daily high temperatures for one week.

Daily High Temperature (°F)

Day	Temperature (°F)
Monday	68
Tuesday	72
Wednesday	72
Thursday	75
Friday	72
Saturday	70
Sunday	75

What is the median temperature?

- Ⓐ 68°F Ⓒ 72°F
Ⓑ 70°F Ⓓ 75°F

- 5** Nina and Anthony were playing a game. They kept score using a stem-and-leaf plot.

Points Scored in a Game

Stem	Leaves
2	4 5 5 6 8 8
3	0 2 2 4 7 8 9 9

What is the range of their scores?

The range is _____.

- 6** Cara made a table to show the number of students in five different school districts.

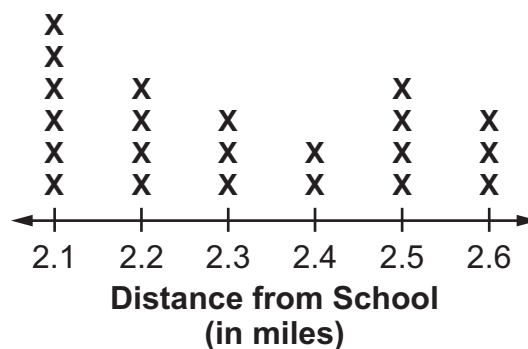
Students in School Districts

School District	Number of Students
Elk Grove	1,405
Madison	2,101
Spring Valley	1,507
Wonder Point	3,708
Wells	1,519

What is the range of the data in the table Cara made?

_____ students

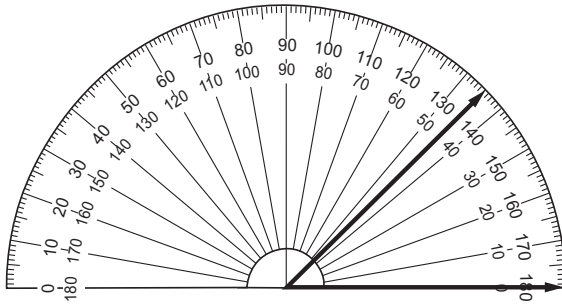
- 7** The table shows how far the students on a bus live from school.



What is the mode of the data shown in the line plot?

- Ⓐ 2.1 miles Ⓒ 2.5 miles
Ⓑ 2.3 miles Ⓓ 2.6 miles

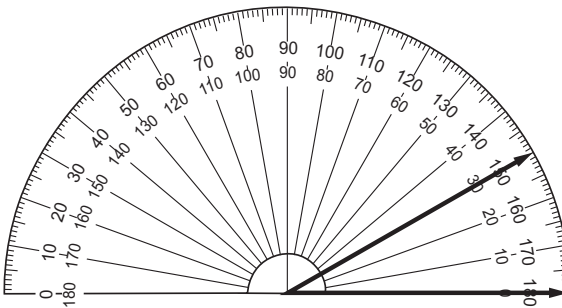
- 1** Use the protractor to measure the angle.



What is the measure of this angle?

- (A) 30°
- (B) 45°
- (C) 60°
- (D) 90°

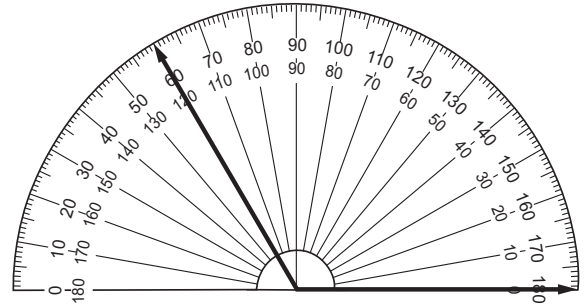
- 2** Use the protractor to measure the angle.



What is the measure of the angle?

- (A) 30°
- (B) 60°
- (C) 120°
- (D) 150°

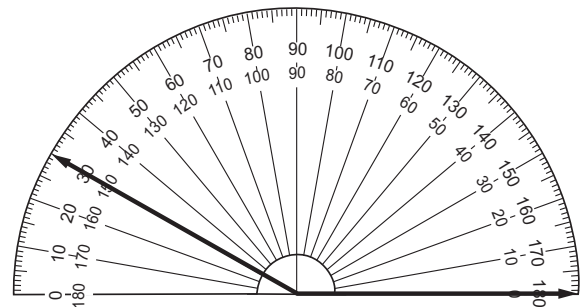
- 3** Use the protractor to measure the angle.



What is the measure of the angle?

- (A) 60°
- (B) 80°
- (C) 120°
- (D) 130°

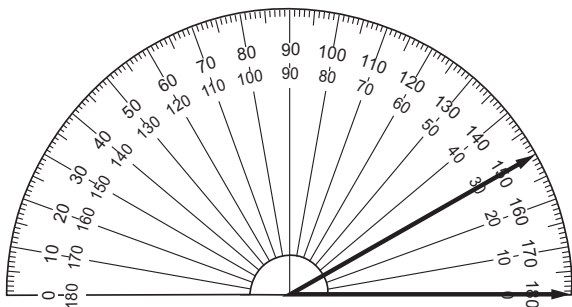
- 4** Fill in the blanks with the word and angle measure from the list to complete the sentence.



The angle shown is a(n) _____ angle because it measures _____.

acute	obtuse	right
90°	120°	150°
		180°

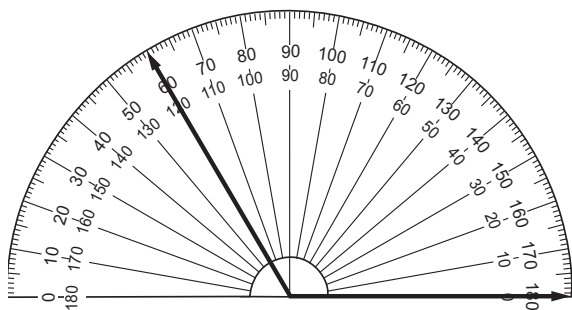
- 5** Use the protractor to measure the angle.



What is the measure of an angle whose measure is 30° greater than the angle shown?

- (A) 30°
- (B) 45°
- (C) 60°
- (D) 90°

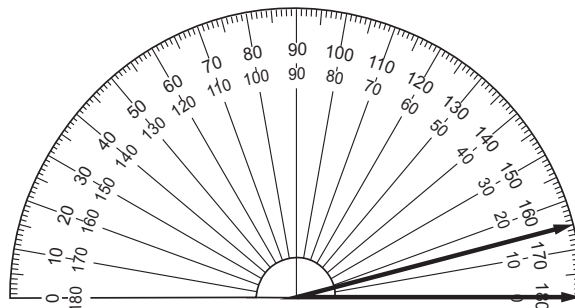
- 6** Use the protractor to measure the angle.



What is the measure of an angle whose measure is 20° less than the measure of the angle shown?

- (A) 60°
- (B) 90°
- (C) 120°
- (D) 140°

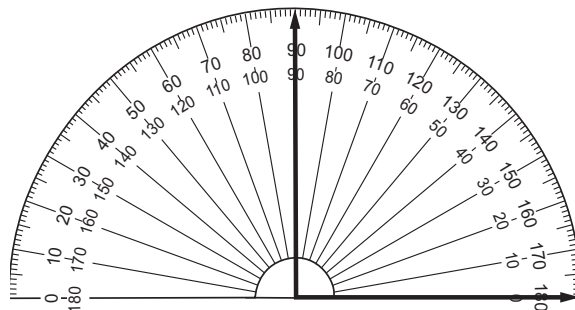
- 7** Use the protractor to measure the angle.



What is the measure of the angle?

- (A) 15°
- (B) 25°
- (C) 35°
- (D) 45°

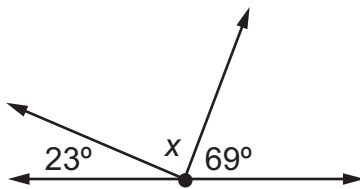
- 8** Use the protractor to measure the angle.



What is the measure of the angle?

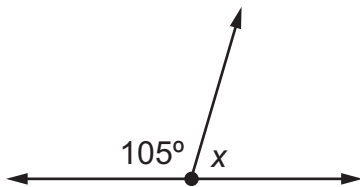
- (A) 0°
- (B) 45°
- (C) 90°
- (D) 180°

- 1** What is the measure of the unknown angle in the figure?



- Ⓐ 46°
 Ⓑ 88°
 Ⓒ 92°
 Ⓓ 180°

- 2** Nina drew the figure shown.



Place an X in the table to show whether each statement is true or false.

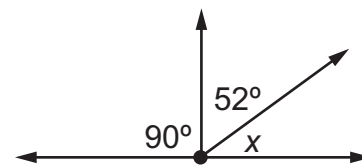
	True	False
The measure of a straight angle is 360° .		
To find the measure of x , Nina can subtract 105 from 360° .		
The measure of x is 75° .		

- 3** Eric put two angles together to form a straight angle. One angle measures 115° .

What is the measure of the other angle?

- Ⓐ 65° Ⓒ 85°
 Ⓑ 75° Ⓓ 95°

- 4** Use the numbers to write an equation that can be used to find the measure of the unknown angle.

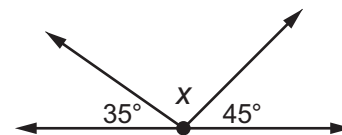


Fill in the blanks with the correct numbers and symbol from the list to complete the equation.

_____ + _____ + _____ = _____

38 52 90 180 142 360 x

- 5** What is the measure of the unknown angle in the figure?

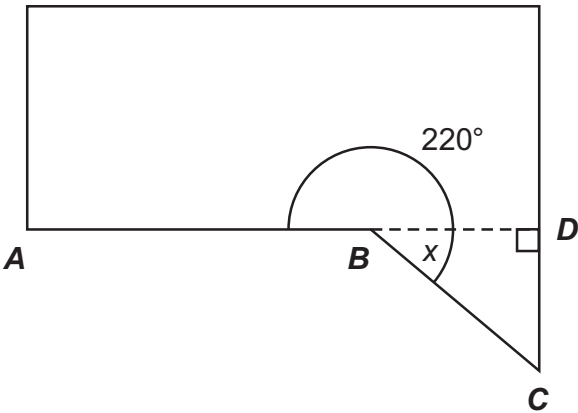


- Ⓐ 80° Ⓒ 100°
 Ⓑ 90° Ⓓ 180°

6 Jeffrey cuts a rectangle out of a piece of scrap paper as shown.

He wants to calculate the angle measure of the piece that is left over. Which equation can be used to solve for angle x ?

- (A) $x + 90 = 220$
- (B) $x - 90 = 220$
- (C) $180 - x = 220$
- (D) $220 - x = 180$

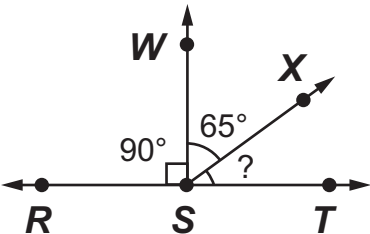


7 A straight line is divided into parts. Which sum could represent the angle measures that make up the straight line?

Select the **three** correct answers.

- (A) $120^\circ + 60^\circ$
- (B) $47^\circ + 61^\circ + 78^\circ$
- (C) $15^\circ + 40^\circ + 53^\circ + 72^\circ$
- (D) $22^\circ + 25^\circ + 56^\circ + 77^\circ$
- (E) $10^\circ + 15^\circ + 17^\circ + 22^\circ + 26^\circ$

8 Akira drew this figure with a protractor.



What is the measure of $\angle XST$?
 $\angle XST =$ _____

9 Miko put two angles together to form a straight angle. One angle measures 88° . What is the measure of the other angle?

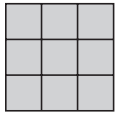
- (A) 42°
- (B) 72°
- (C) 82°
- (D) 92°

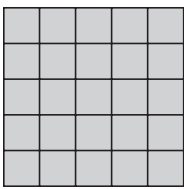


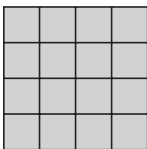
10 $\angle C$ and $\angle D$ form a straight line. Find the measure of $\angle D$ for each measure of $\angle C$ in the table.

Measure of $\angle C$	Measure of $\angle D$
122°	
35°	
62°	
105°	

58°	75°	118°	145°
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- 1** Which figure has the same perimeter but an area with fewer square units?



- (A) 
- (B) 
- (C) 
- (D) 

- 2** Carlos measures rectangles with areas of 40 square inches but with different perimeters. Which could be the dimensions of the rectangles Carlos measures?

Select **all** the correct answers.

- (A) 5 inches by 9 inches
(B) 5 inches by 8 inches
(C) 6 inches by 7 inches
(D) 4 inches by 10 inches
(E) 2 inches by 20 inches

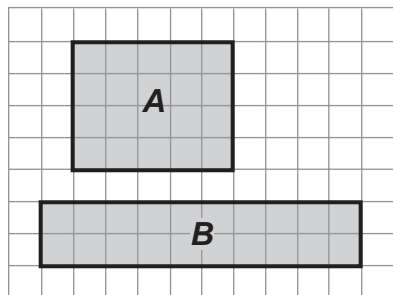
- 3** Rachel draws two rectangles. The rectangles both have a perimeter of 12 units, but they have different areas. What equations can Rachel use to show the areas of the rectangles?

$$1 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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

- 4** Sal plants a rectangular garden with a perimeter of 72 feet, a width of 9 feet, and a length of 27 feet. Sal wants to plant another rectangular garden with the same perimeter and a width of 10 feet. What is the area of the new garden?
- (A) 234 square feet
(B) 243 square feet
(C) 260 square feet
(D) 270 square feet

- 5** Samantha drew two different rectangles with the same area.



What is the perimeter of each rectangle she drew?

Fill in the blanks with the numbers from the list to show the correct perimeter of each rectangle.

Rectangle *A* = _____ units

Rectangle *B* = _____ units

16	18	20	24
----	----	----	----

- 6** Max measures a rectangle with an area of 2,000 square centimeters and a perimeter of 180 centimeters. Sara measures a rectangle with the same area but a different perimeter. If the width is 20 centimeters, what is the length of the rectangle Sara measures?

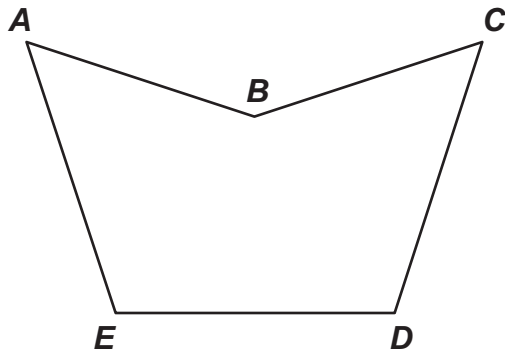
length = _____ centimeters

- 7** For a quilting project, Bekka wants rectangles of fabric with perimeters of 24 centimeters but areas that are greater than 24 square centimeters. What size rectangles can she use?

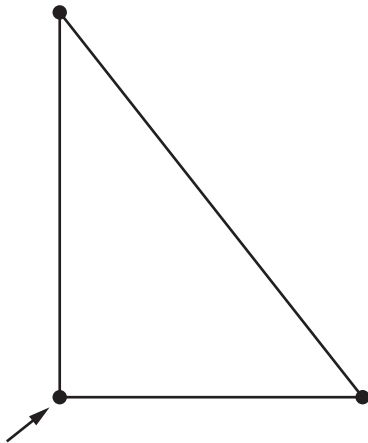
Select **all** the correct answers.

- ☐ (A) 2 centimeters by 10 centimeters
- ☐ (B) 4 centimeters by 8 centimeters
- ☐ (C) 5 centimeters by 7 centimeters
- ☐ (D) 7 centimeters by 6 centimeters
- ☐ (E) 8 centimeters by 3 centimeters

- 1** Which angles are acute?
Circle **all** the acute angles in the figure.

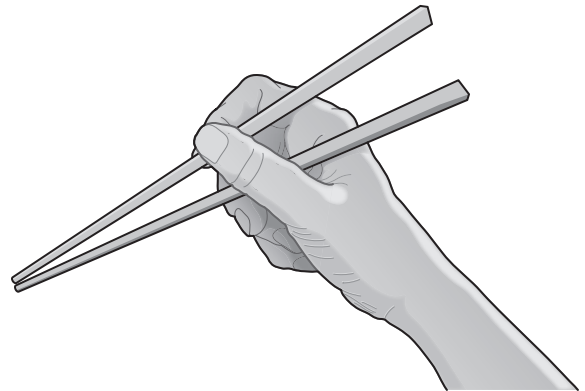


- 2** Which type of angle BEST describes the angle of the triangle shown by the arrow?



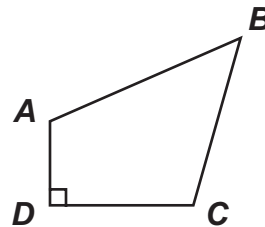
- Ⓐ right angle
Ⓑ acute angle
Ⓒ obtuse angle
Ⓓ straight angle

- 3** What type of angle do the chopsticks form?



- Ⓐ right
Ⓑ acute
Ⓒ obtuse
Ⓓ straight

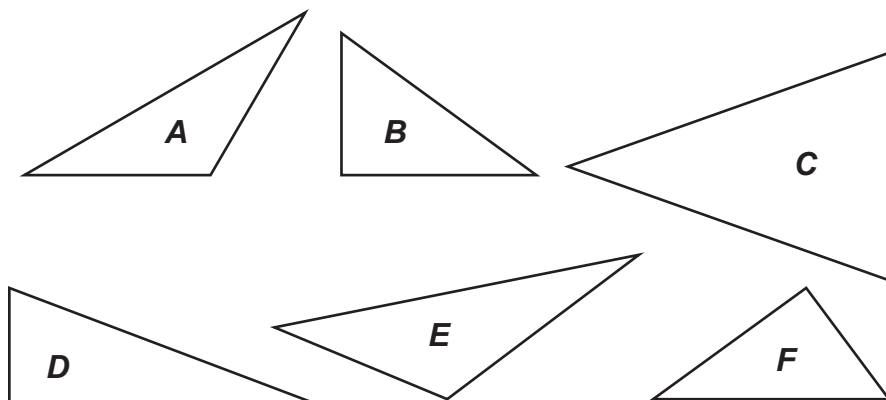
- 4** A quadrilateral is shown.



Place an X in the table to classify each angle.

	Acute	Obtuse	Right
$\angle A$			
$\angle B$			
$\angle C$			
$\angle D$			

5 Which triangles appear to have a right angle?



Select the **three** correct answers.

- (A) A
- (B) B
- (C) C
- (D) D
- (E) E
- (F) F

6 What types of angles are shown?

Write the letter for each angle in the correct place in the table.

Acute	Right	Obtuse	Reflex

