



4th Year Math Task Cards

Unit 4 - Measurement & Data (MD)

Directions:

- 1) Locate the assigned “Math Task Cards” from this unit
- 2) If needed, use a material or whiteboard to help you solve the problems
- 3) Record all answers in your “Math Task Journal”
- 4) When you have completed all 20 Task Cards, you may self-correct using the Answer Key
- 5) If you get a problem wrong, circle it with a highlighter or marker

16-20 CORRECT	11-15 CORRECT	0-10 CORRECT
EXCELLING	ACHIEVING	DEVELOPING
WOW - WAY TO GO!	YOU'RE GETTING CLOSE!	NOT YET - KEEP TRYING!

1

What is the best estimate for the width of a door?

- A. 3 Inches
- B. 3 Feet
- C. 3 Yards
- D. 3 Miles

4.MD.1

2

What is the best estimate for the weight of a dog?

- A. 40 Pounds
- B. 40 Ounces

4.MD.1

3

What is the best estimate for the length of a school day?

- A. 8 Hours
- B. 8 Minutes
- C. 8 Seconds

4.MD.1

4

What is the best estimate for the capacity of a water bottle?

- A. 2 Cups
- B. 2 Quarts
- C. 2 Gallons

4.MD.1

5

What is the best estimate for the length of a car?

- A. 3 Millimeters
- B. 3 Centimeters
- C. 3 Meters
- D. 3 Kilometers

4.MD.1

6

What is the best estimate for the weight of a frog?

- A. 22 Grams
- B. 22 Kilograms

4.MD.1

7

What is the best estimate for the capacity of a gallon of milk?

- A. 4 Milliliters
- B. 4 Liters

4.MD.1

8

What is the best estimate for the length of a sheet of paper?

- A. 28 Millimeters
- B. 28 Centimeters
- C. 28 Meters
- D. 28 Kilometers

4.MD.1

9

Fill in the blanks.

Hours	Minutes
1	60
2	
	180
4	
5	

4.MD.1

10

Fill in the blanks.

Feet	Inches
1	12
	24
3	
	48
5	

4.MD.1

11

Fill in the blanks.

Gallons	Quarts
1	4
2	
	12
4	
	20

4.MD.1

12

Fill in the blanks.

Pounds	Ounces
1	16
	32
3	
	64
5	

4.MD.1

13

Fill in the blanks.

Meters	Centimeters
1	100
2	
	300
4	
5	

4.MD.1**14**

Fill in the blanks.

Kilograms	Grams
1	1,000
	2,000
3	
	4,000
5	

4.MD.1**15**

Fill in the blanks.

Liters	Milliliters
1	1,000
2	
	3,000
4	
	5,000

4.MD.1**16**

Fill in the blanks.

Kilometers	Meters
1	1,000
	2,000
3	
	4,000
5	

4.MD.1

17

Convert the following
measure:

$$3 \text{ feet} = \underline{\quad} \text{ inches}$$

4.MD.1

18

Convert the following
measure:

$$4 \text{ hours} = \underline{\quad} \text{ minutes}$$

4.MD.1

19

Convert the following
measure:

$$4 \text{ cups} = \underline{\quad} \text{ pints}$$

4.MD.1

20

Convert the following
measure:

$$2 \text{ pounds} = \underline{\quad} \text{ ounces}$$

4.MD.1

21

Convert the following
measure:

5 meters = ____ centimeters

4.MD.1

22

Convert the following
measure:

2 kilograms = ____ grams

4.MD.1

23

Convert the following
measure:

3 kilometers = ____ meters

4.MD.1

24

Convert the following
measure:

2 liters = ____ milliliters

4.MD.1

Units of Measure

Name: _____

1.
2.
3.
4.
5.
6.
7.
8.

9

Hours	Minutes
1	60
2	
	180
4	
5	

10

Feet	Inches
1	12
	24
3	
	48
5	

11

Gallons	Quarts
1	4
2	
	12
4	
	20

12

Pounds	Ounces
1	16
	32
3	
	64
5	

Units of Measure

Name: _____

13

Meters	Centimeters
1	100
2	
	300
4	
5	

14

Kilograms	Grams
1	1,000
	2,000
3	
	4,000
5	

15

Liters	Milliliters
1	1,000
2	
	3,000
4	
	5,000

16

Kilometers	Meters
1	1,000
	2,000
3	
	4,000
5	

17.
18.
19.
20.
21.
22.
23.
24.

Units of Measure

Name: _____

1.	B
2.	A
3.	A
4.	A
5.	C
6.	A
7.	B
8.	B

9

Hours	Minutes
1	60
2	120
3	180
4	240
5	300

10

Feet	Inches
1	12
2	24
3	36
4	48
5	60

11

Gallons	Quarts
1	4
2	8
3	12
4	16
5	20

12

Pounds	Ounces
1	16
2	32
3	48
4	64
5	80

Units of Measure

Name: _____

13

Meters	Centimeters
1	100
2	200
3	300
4	400
5	500

14

Kilograms	Grams
1	1,000
2	2,000
3	3,000
4	4,000
5	5,000

15

Liters	Milliliters
1	1,000
2	2,000
3	3,000
4	4,000
5	5,000

16

Kilometers	Meters
1	1,000
2	2,000
3	3,000
4	4,000
5	5,000

17.	36
18.	240
19.	2
20.	32
21.	500
22.	2,000
23.	3,000
24.	2,000

1

The Jones family took a family vacation. First they drove to 467 miles, and then they drove 636 miles. How many miles did they drive in all?

4.MD.2

2

Grace spent $7\frac{1}{2}$ hours studying last week. If she studied for an equal amount each day for 5 days, how many minutes did she study each day?

4.MD.2

3

An elephant drinks 20 gallons of water per day, and a horse drinks 10 gallons per day. How many more quarts does an elephant drink than a horse?

4.MD.2

4

Mrs. Willis got 5 boxes of tissues for her classroom. Each box weighs 0.5 pound. How much do all her boxes of tissues weigh?

4.MD.2

5

Cassie had \$18 to spend at the bookstore. She only spent \$13.08. How much money does she have left?

4.MD.2

6

On Farmer Joe's farm his cow weighs 1 ton, and his pig weighs 220 pounds. How many pounds do the animals weigh altogether?

4.MD.2

7

Ben had 8 pints of milk to split among his 4 friends. How many cups of milk did each friend get?

4.MD.2

8

Joann practiced her keyboarding skills each day for 40 minutes. If she did this for 6 days, how many minutes did she practice in all?

4.MD.2

9

Melanie has 2 meters of ribbon. She equally splits the ribbon between her 5 friends. How many centimeters of ribbon does each friend get?

4.MD.2

10

Tammy practiced piano for half an hour on Monday, 2 hours on Tuesday, and 40 minutes on Wednesday. How many minutes did Tammy practice piano in all?

4.MD.2

11

Devin drinks 6.5 cups of water each day. How many cups of water does he drink in one week?

4.MD.2

12

Pam had \$20 to spend at the grocery store. She only spent \$14.53. How much money does she have left?

4.MD.2

13

Nick bought 6 packs of baseball cards. Each pack cost \$2.09. How much did he spend in all?

4.MD.2

14

Fred drank 2 liters of water. How many milliliters of water did he drink?

4.MD.2

15

Tony slept for $8 \frac{1}{2}$ hours, and his older sister slept for $7 \frac{3}{4}$ hours. How many more minutes did Tony sleep than his sister?

4.MD.2

16

Tom's fishing pole is $6 \frac{1}{4}$ feet, and Shelby's fishing pole is $5 \frac{1}{2}$ feet. How long are their fishing poles altogether?

4.MD.2

17

Harry drives to school each weekday. Each trip to school and back home is 3.4 kilometers. How many kilometers does he drive in 5 days?

4.MD.2

18

Ron's baseball practice lasted $3\frac{1}{4}$ hours on Saturday. How many minutes long was Ron's baseball practice?

4.MD.2

19

Randy spent \$8.10 at the concession stand. He bought 5 hotdogs. How much did each hotdog cost?

4.MD.2

20

A stapler weighs 0.5 kilograms, and a pair of scissors weighs 40 grams. How many more grams does the stapler weigh than the scissors?

4.MD.2

Measurement Word Problems

ANSWER KEY

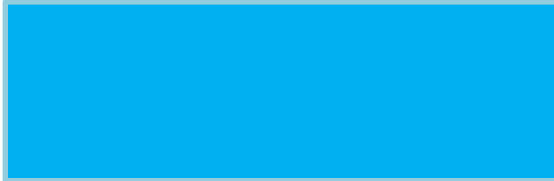
1. 1,103	2. 90	3. 40	4. 2.5 lbs
5. \$4.92	6. 2,220	7. 4	8. 240
9. 40	10. 190	11. 45.5	12. \$5.47
13. \$12.54	14. 2,000	15. 45	16. 11 $\frac{3}{4}$
17. 17	18. 195	19. \$1.62	20. 460

1

Find the area and perimeter of each shape.

9 ft

4 ft



4.MD.3

2

Find the area and perimeter of each shape.

8 cm

5 cm



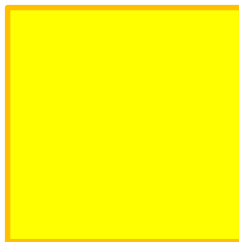
4.MD.3

3

Find the area and perimeter of each shape.

6 m

6 m



4.MD.3

4

Find the area and perimeter of each shape.

3 in

7 in



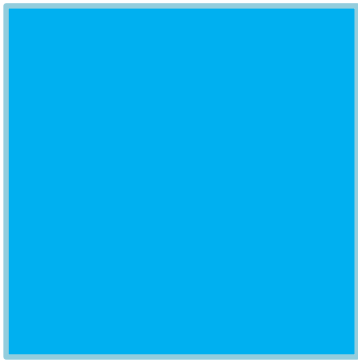
4.MD.3

5

Find the area and perimeter of each shape.

8 ft

8 ft



4.MD.3

6

Find the area and perimeter of each shape.

11 cm

4 cm



4.MD.3

7

Find the area and perimeter of each shape.

6 m

4 m



4.MD.3

8

Find the area and perimeter of each shape.

9 in

5 in



4.MD.3

9

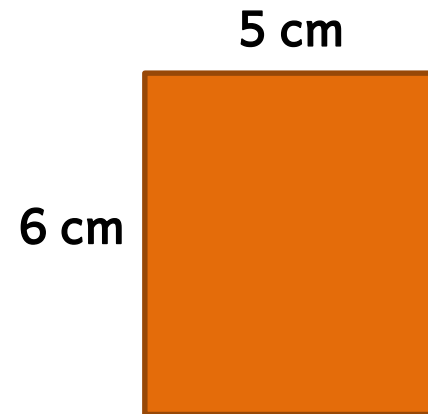
Find the area and perimeter of each shape.



4.MD.3

10

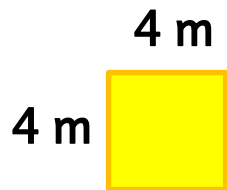
Find the area and perimeter of each shape.



4.MD.3

11

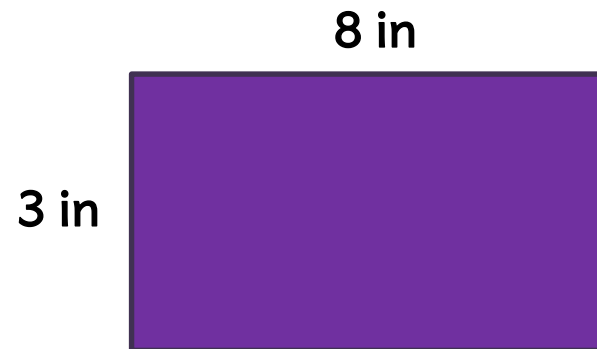
Find the area and perimeter of each shape.



4.MD.3

12

Find the area and perimeter of each shape.



4.MD.3

13

An envelope is 4 inches by 9 inches. What is the area and perimeter of the envelope?

4.MD.3

14

Rose's bedroom is 12 feet by 7 feet. What is the area and perimeter of her bedroom?

4.MD.3

15

Todd's calculator is 8 cm by 5 cm. What is the area and perimeter of his calculator?

4.MD.3

16

Janice's notebook is 8 inches by 7 inches. What is the area and perimeter of her notebook?

4.MD.3

17

A parking lot is 9 meters by 11 meters. What is the area and perimeter of the parking lot?

4.MD.3

18

A door is 7 feet by 3 feet. What is the area and perimeter of the door?

4.MD.3

19

An index card is 8 cm by 12 cm. What is the area and perimeter of an index card?

4.MD.3

20

Mia's folder is 10 inches by 8 inches. What is the area and perimeter of her folder?

4.MD.3

21

A gas station is 12 meters by 12 meters. What is the area and perimeter of the gas station?

4.MD.3

22

Greg's TV is 3 feet by 4 feet. What is the area and perimeter of the TV?

4.MD.3

23

A baseball card is 6 cm by 9 cm. What is the area and perimeter of a baseball card?

4.MD.3

24

David's birthday card is 5 inches by 7 inches. What is the area and perimeter of his birthday card?

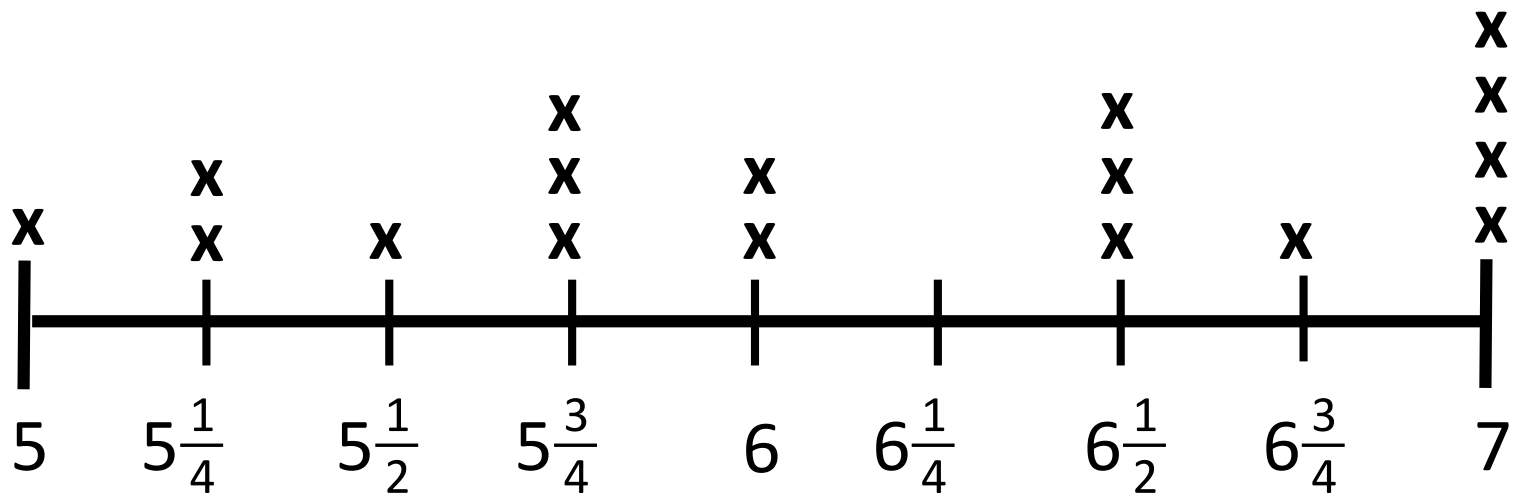
4.MD.3

Area & Perimeter

ANSWER KEY

1. Area = 36 ft^2 Perimeter = 26 ft	2. Area = 40 cm^2 Perimeter = 26 cm	3. Area = 36 m^2 Perimeter = 24 m	4. Area = 21 in^2 Perimeter = 20 in
5. Area = 64 ft^2 Perimeter = 32 ft	6. Area = 44 cm^2 Perimeter = 30 cm	7. Area = 24 m^2 Perimeter = 20 m	8. Area = 45 in^2 Perimeter = 28 in
9. Area = 16 ft^2 Perimeter = 20 ft	10. Area = 30 cm^2 Perimeter = 22 cm	11. Area = 16 m^2 Perimeter = 16 m	12. Area = 24 in^2 Perimeter = 22 in
13. Area = 36 in^2 Perimeter = 26 in	14. Area = 84 ft^2 Perimeter = 38 ft	15. Area = 40 cm^2 Perimeter = 26 cm	16. Area = 56 in^2 Perimeter = 30 in
17. Area = 99 m^2 Perimeter = 40 m	18. Area = 21 ft^2 Perimeter = 20 ft	19. Area = 96 cm^2 Perimeter = 40 cm	20. Area = 80 in^2 Perimeter = 36 in

Use with Task Cards 1-8.



The Lengths of Students' Pencils in Inches

4.MD.4

1

How many pencils were measured?

4.MD.4

2

What was the most common pencil length?

4.MD.4

3

How many students had a pencil 6 inches or shorter?

4.MD.4

4

How many students had a pencil $6\frac{1}{2}$ inches or longer?

4.MD.4

5

If all the pencils measuring $6\frac{1}{2}$ inches were added together, what would the total length be?

4.MD.4

6

If all the pencils measuring $5\frac{3}{4}$ inches were added together, what would the total length be?

4.MD.4

7

What is the difference in length between the longest and the shortest pencils?

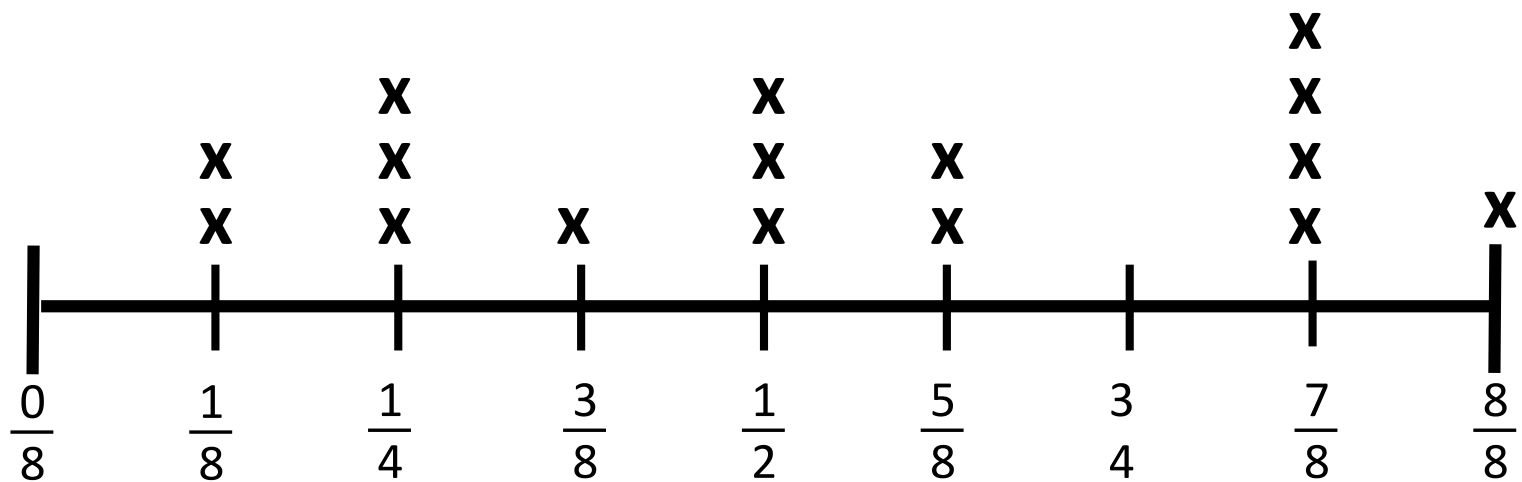
4.MD.4

8

If all the pencils measuring $6\frac{1}{2}$ inches to 7 inches were added together, what would the total length be?

4.MD.4

Use with Task Cards 9-16.



The Length of Liam's Insects in Inches

4.MD.4

9

How many insects are represented on the line plot?

4.MD.4

10

What is the most common length of insect?

4.MD.4

11

How many insects measure $\frac{1}{2}$ inch or less?

4.MD.4

12

How many insects measure $\frac{5}{8}$ inch or more?

4.MD.4

13

If all the insects measuring $\frac{1}{4}$ inch were added together, what would the total length be?

4.MD.4

14

If all the insects measuring $\frac{7}{8}$ inch were added together, what would the total length be?

4.MD.4

15

What is the difference in length between the largest and smallest insect?

4.MD.4

16

If all the insects measuring between $\frac{1}{8}$ and $\frac{1}{2}$ inch were added together, what would the total length be?

4.MD.4

17 Make a line plot using the following data:

Susan cut pieces of yarn in the following lengths:

$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{5}{8}$,
 $\frac{3}{8}$, $\frac{3}{8}$, $\frac{1}{2}$

4.MD.4

18

Answer the question based on the line plot you created in task card 17.

Which length of yarn is most common?

4.MD.4

19

Answer the question based on the line plot you created in task card 17.

What is the combined length of yarn displayed on the graph?

4.MD.4

20

Answer the question based on the line plot you created in task card 17.

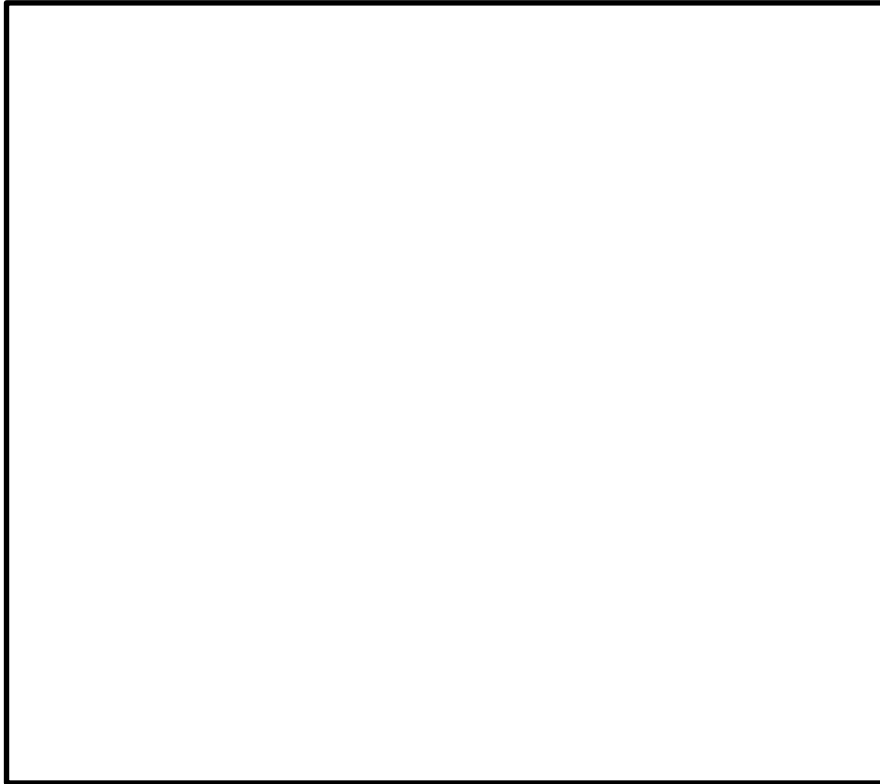
What is the length difference between the longest and shortest piece of yarn?

4.MD.4

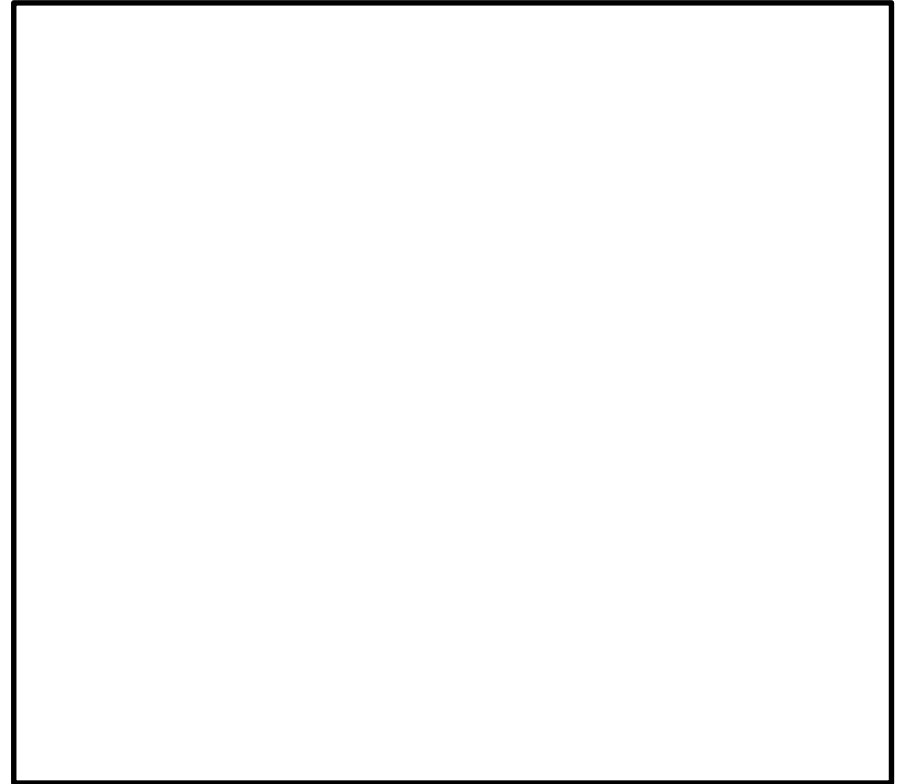
Line Plots

Name: _____

Make a line plot for #17.



Make a line plot for #21.



18.

19.

20.

22.

23.

24.

Line Plots

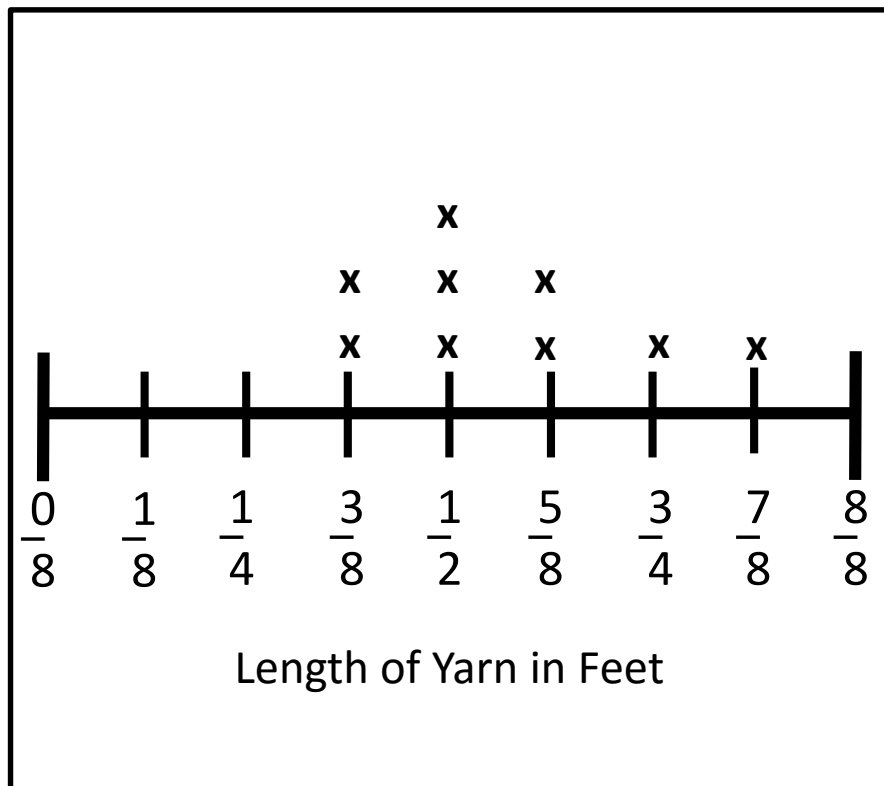
ANSWER KEY

1. 17	2. 7 Inches	3. 9	4. 8
5. 19 ½ inches	6. 17 ¼ inches	7. 2 inches	8. 54 ¼ inches
9. 16	10. 7/8 inch	11. 9	12. 7
13. ¾ inch	14. 3 ½ inches	15. 7/8 inch	16. 2 7/8 inches

Line Plots

ANSWER KEY

Make a line plot for #17.



18.

$\frac{1}{2}$

19.

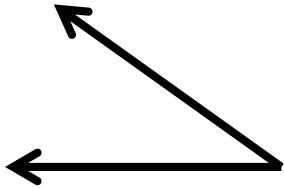
$5 \frac{1}{8}$

20.

**$\frac{4}{8}$
or $\frac{1}{2}$**

1

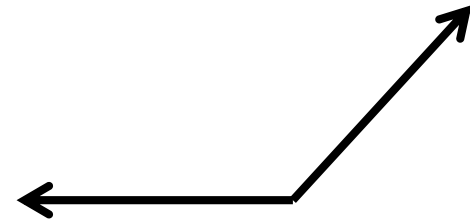
Label each angle as acute, obtuse, or right.



4.MD.5

2

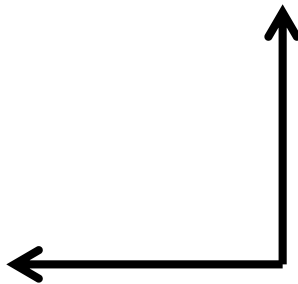
Label each angle as acute, obtuse, or right.



4.MD.5

3

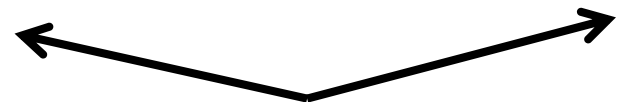
Label each angle as acute, obtuse, or right.



4.MD.5

4

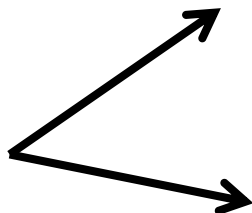
Label each angle as acute, obtuse, or right.



4.MD.5

5

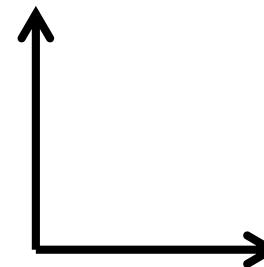
Label each angle as acute, obtuse, or right.



4.MD.5

6

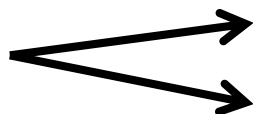
Label each angle as acute, obtuse, or right.



4.MD.5

7

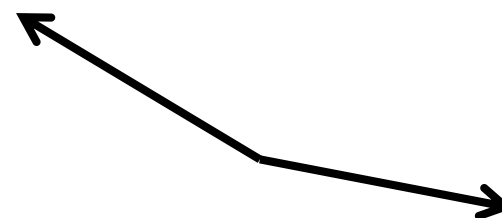
Label each angle as acute, obtuse, or right.



4.MD.5

8

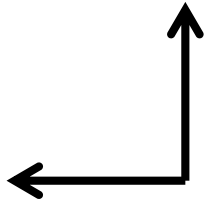
Label each angle as acute, obtuse, or right.



4.MD.5

9

Which choice best represents the angle?

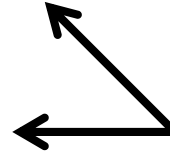


- a) 90°
- b) 120°
- c) 13°
- d) 42°

4.MD.5

10

Which choice best represents the angle?



- a) 168°
- b) 90°
- c) 45°
- d) 153°

4.MD.5

11

Which choice best represents the angle?

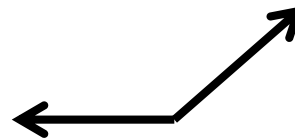


- a) 96°
- b) 25°
- c) 108°
- d) 124°

4.MD.5

12

Which choice best represents the angle?



- a) 135°
- b) 45°
- c) 105°
- d) 89°

4.MD.5

13

Which choice best represents the angle?

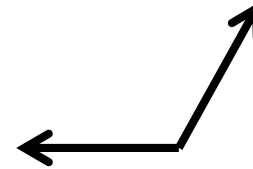


- a) 100°
- b) 180°
- c) 20°
- d) 165°

4.MD.5

14

Which choice best represents the angle?

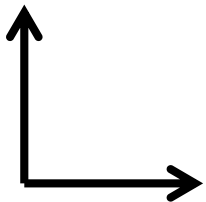


- a) 10°
- b) 100°
- c) 60°
- d) 45°

4.MD.5

15

Which choice best represents the angle?

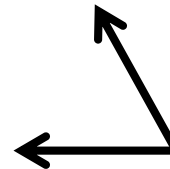


- a) 60°
- b) 15°
- c) 90°
- d) 145°

4.MD.5

16

Which choice best represents the angle?



- a) 70°
- b) 140°
- c) 90°
- d) 17°

4.MD.5

17

Determine if the angle is acute, obtuse, or right ?

165°

4.MD.5

18

Determine if the angle is acute, obtuse, or right ?

18°

4.MD.5

19

Determine if the angle is acute, obtuse, or right ?

90°

4.MD.5

20

Determine if the angle is acute, obtuse, or right ?

120°

4.MD.5

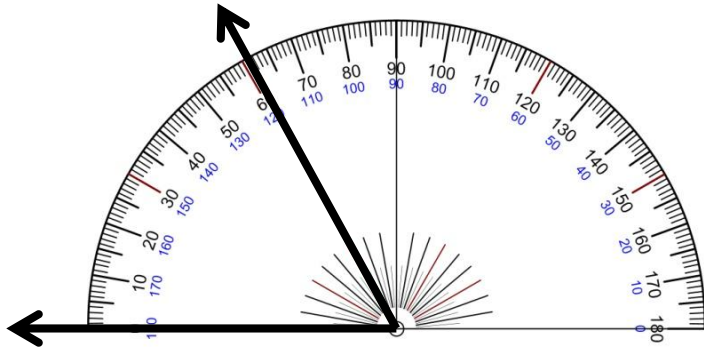
Recognizing Angles

ANSWER KEY

1. Acute	2. Obtuse	3. Right	4. Obtuse
5. Acute	6. Right	7. Acute	8. Obtuse
9. A	10. C	11. B	12. A
13. D	14. B	15. C	16. A
17. Obtuse	18. Acute	19. Right	20. Obtuse

1

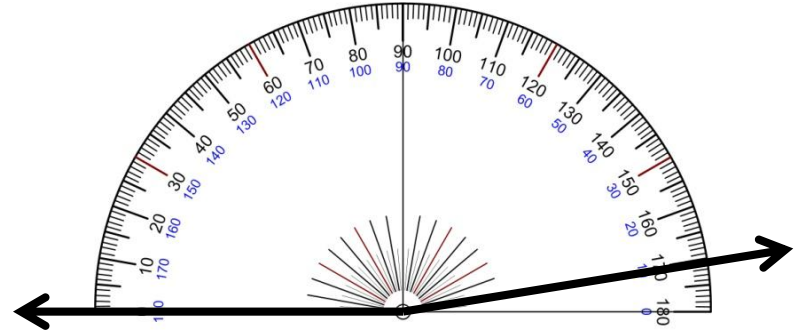
Measure the angle to the nearest 5°.



4.MD.6

2

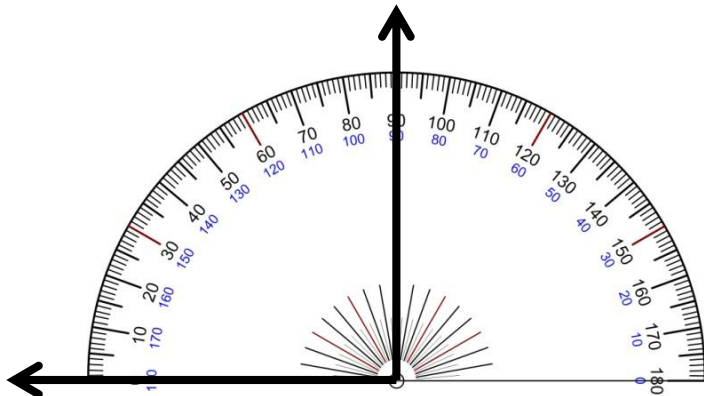
Measure the angle to the nearest 5°.



4.MD.6

3

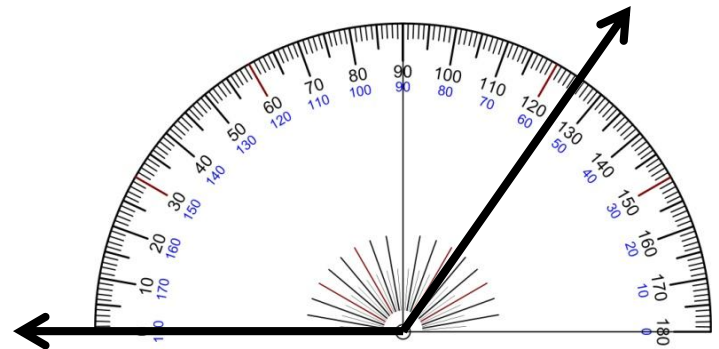
Measure the angle to the nearest 5°.



4.MD.6

4

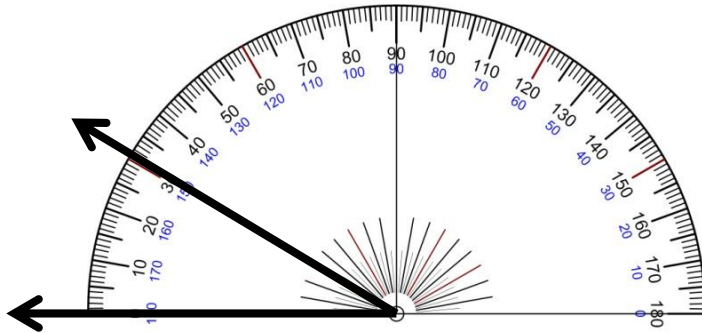
Measure the angle to the nearest 5°.



4.MD.6

5

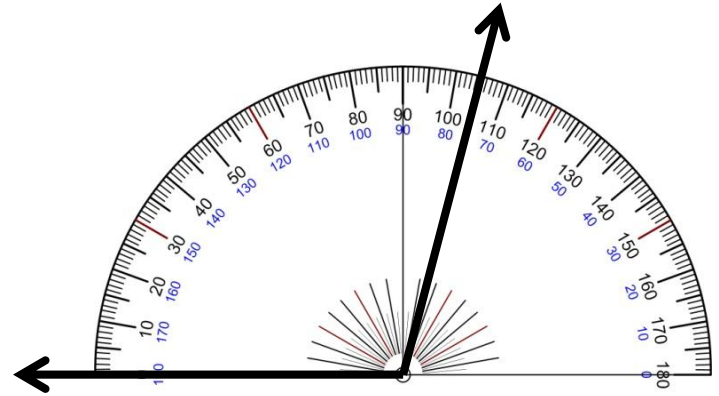
Measure the angle to the nearest 5° .



4.MD.6

6

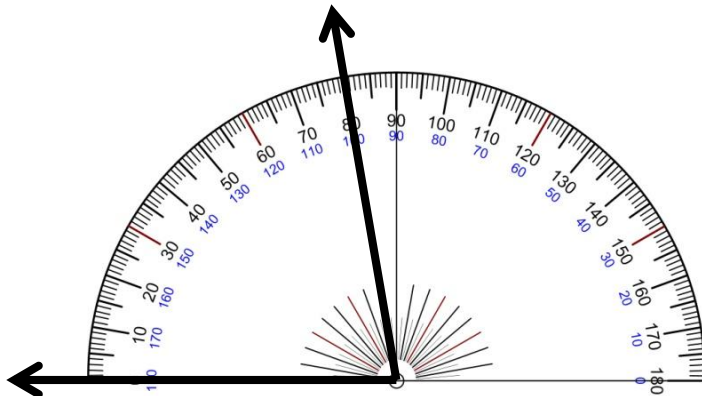
Measure the angle to the nearest 5° .



4.MD.6

7

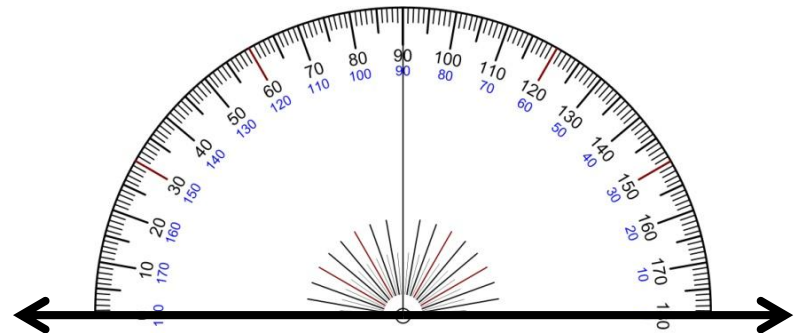
Measure the angle to the nearest 5° .



4.MD.6

8

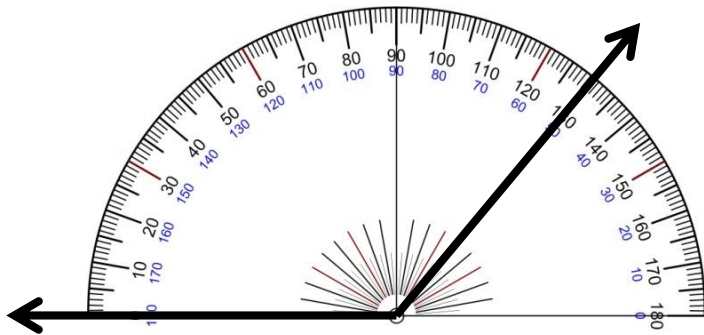
Measure the angle to the nearest 5° .



4.MD.6

9

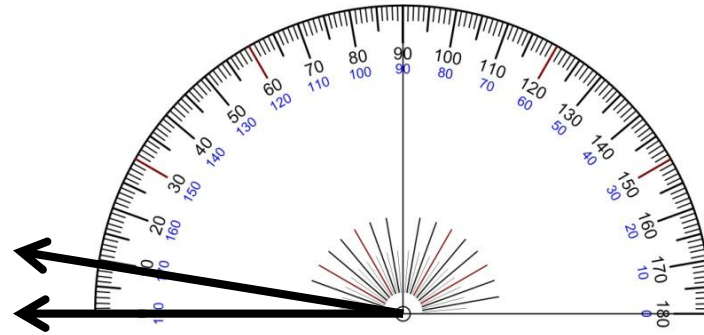
Measure the angle to the nearest 5° .



4.MD.6

10

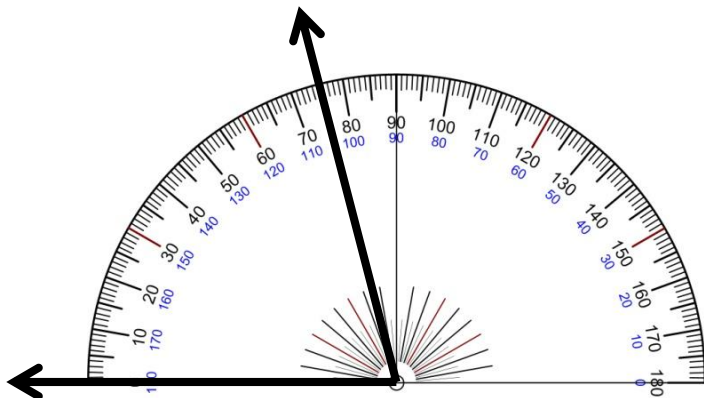
Measure the angle to the nearest 5° .



4.MD.6

11

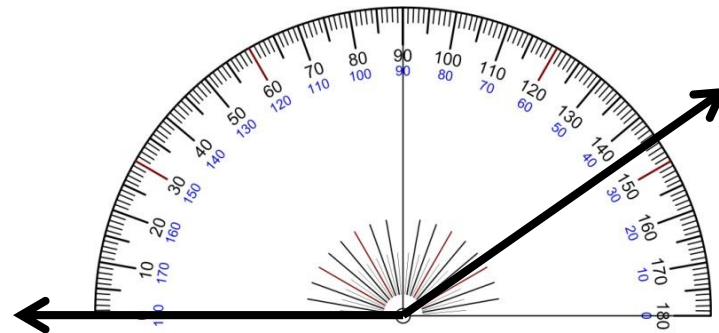
Measure the angle to the nearest 5° .



4.MD.6

12

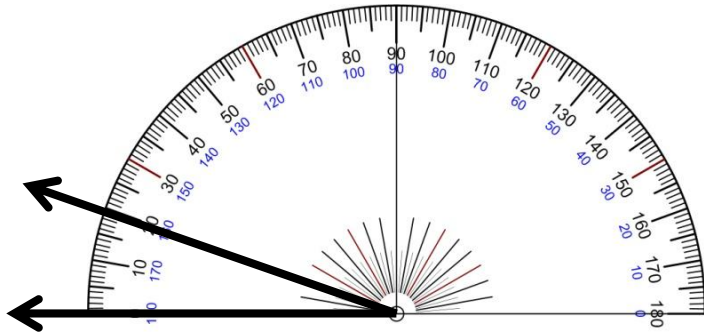
Measure the angle to the nearest 5° .



4.MD.6

13

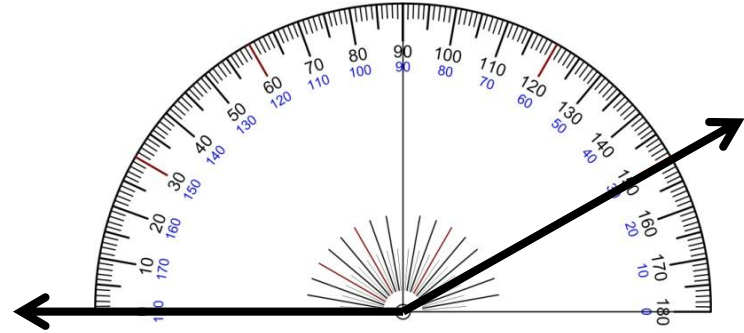
Measure the angle to the nearest 5° .



4.MD.6

14

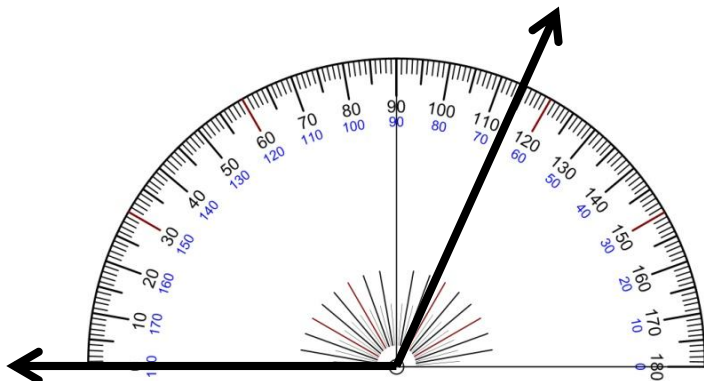
Measure the angle to the nearest 5° .



4.MD.6

15

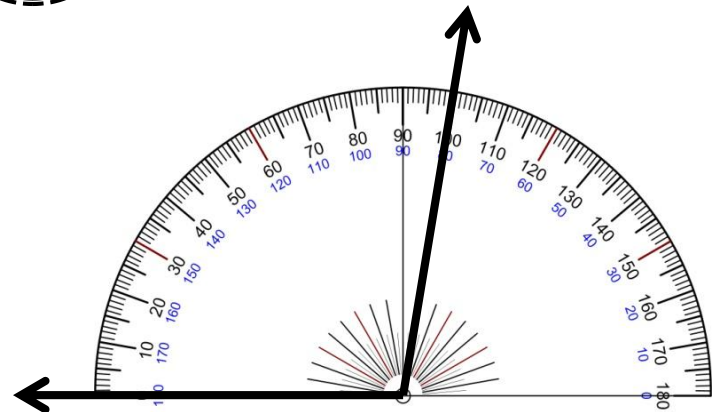
Measure the angle to the nearest 5° .



4.MD.6

16

Measure the angle to the nearest 5° .



4.MD.6

17

Use a protractor to draw
the following angle:

45°

4.MD.6

18

Use a protractor to draw
the following angle:

160°

4.MD.6

19

Use a protractor to draw
the following angle:

70°

4.MD.6

20

Use a protractor to draw
the following angle:

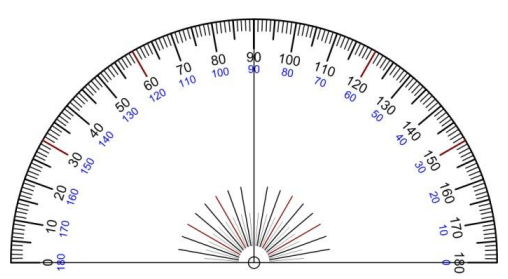
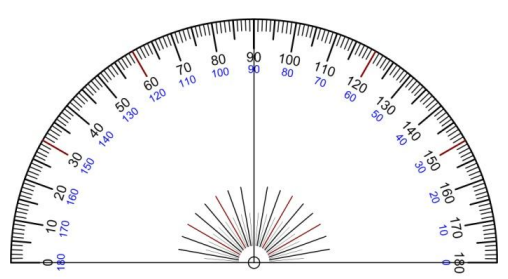
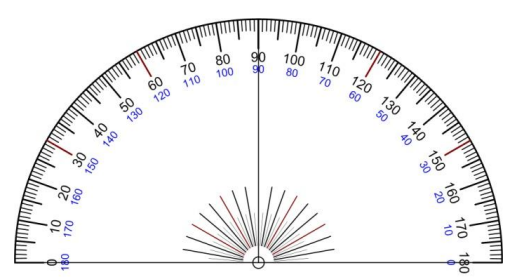
90°

4.MD.6

Measuring Angles

Name: _____

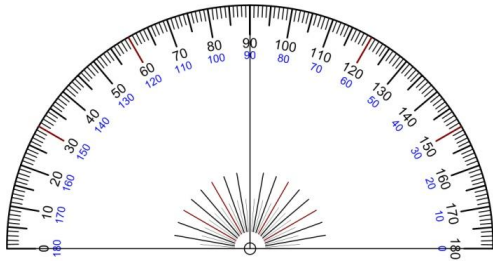
1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.

<p>17.</p> 	<p>18.</p> 	<p>19.</p> 
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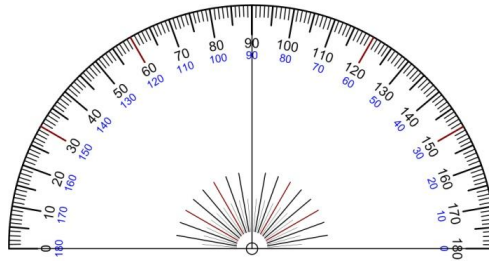
Measuring Angles

Name: _____

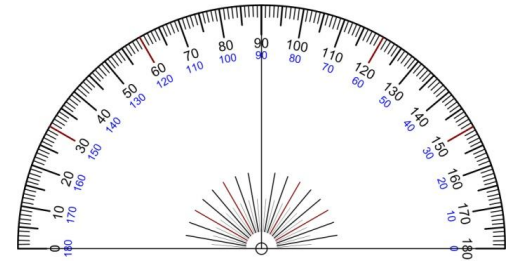
20.



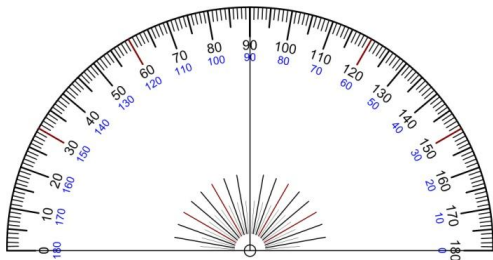
21.



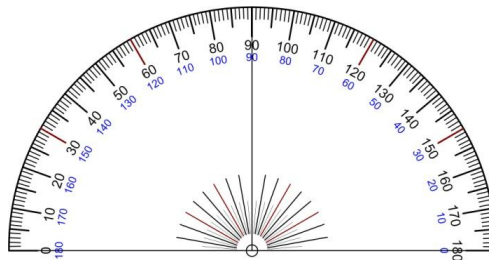
22.



23.



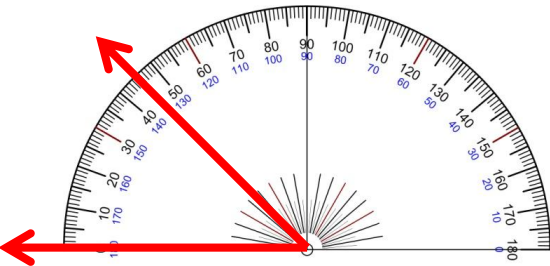
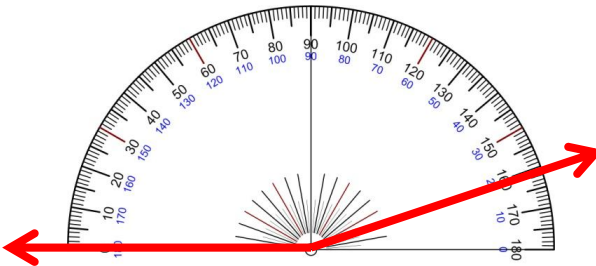
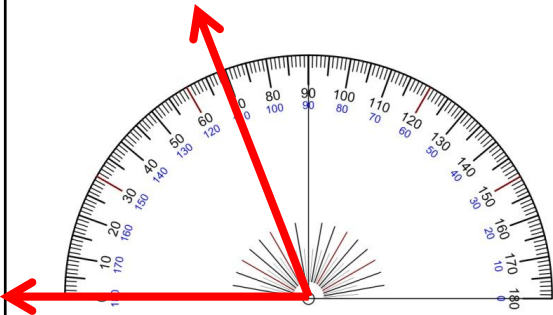
24.



Measuring Angles

ANSWER KEY

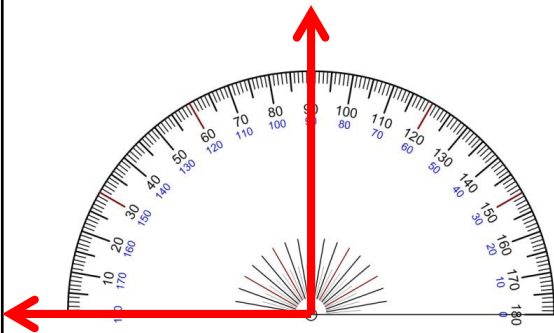
1. 60°	2. 170°	3. 90°	4. 125°
5. 30°	6. 105°	7. 80°	8. 180°
9. 130°	10. 10°	11. 75°	12. 145°
13. 20°	14. 150°	15. 115°	16. 100°

17. 	18. 	19. 
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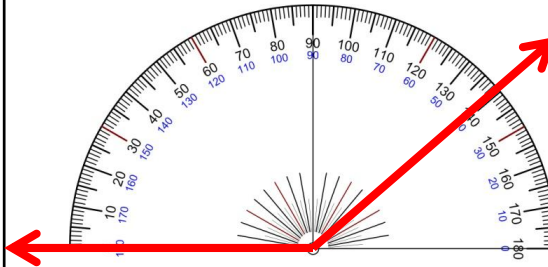
Measuring Angles

ANSWER KEY

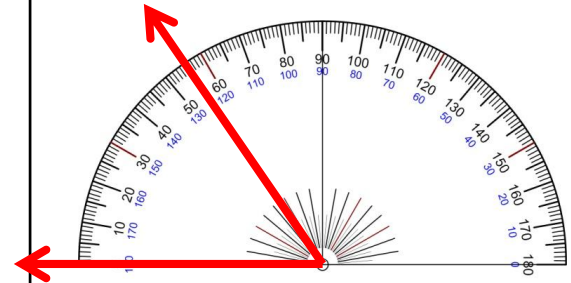
20.



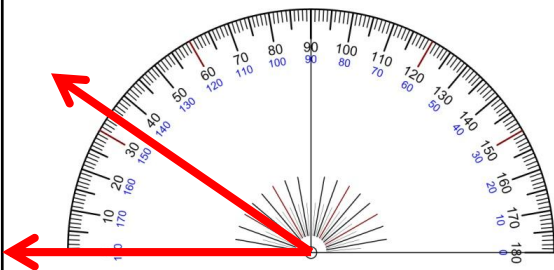
21.



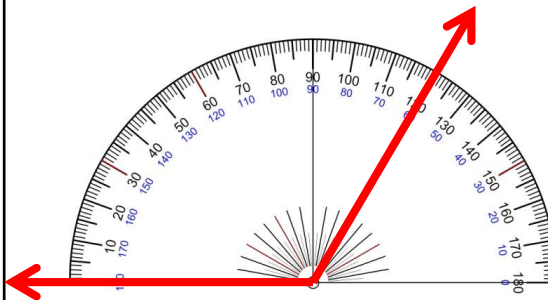
22.



23.

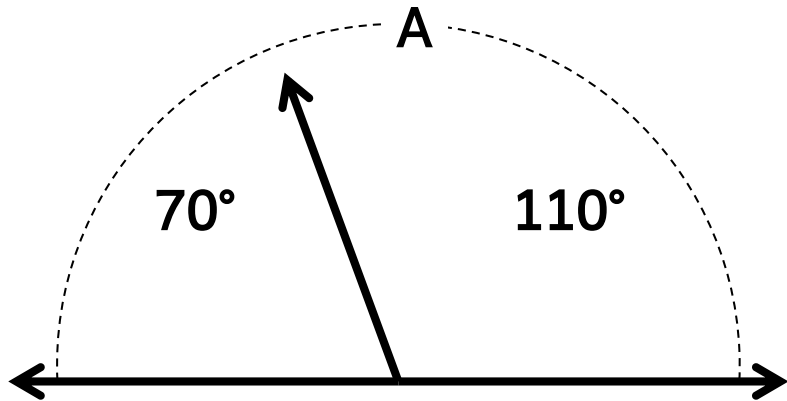


24.



1

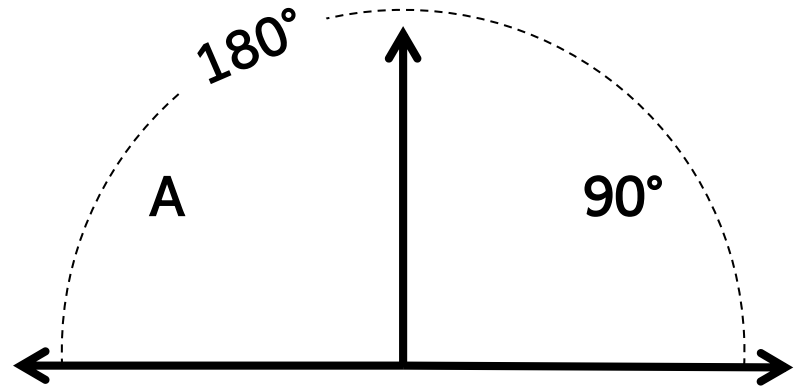
Find the value of the entire angle, 'A'.



4.MD.7

2

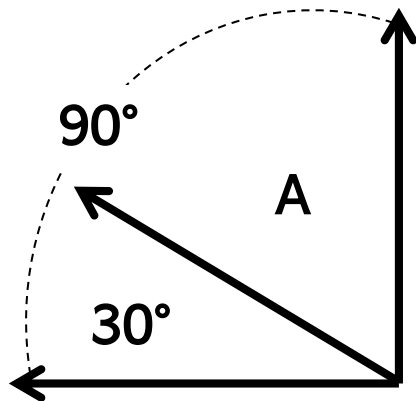
Find the value of angle 'A'.



4.MD.7

3

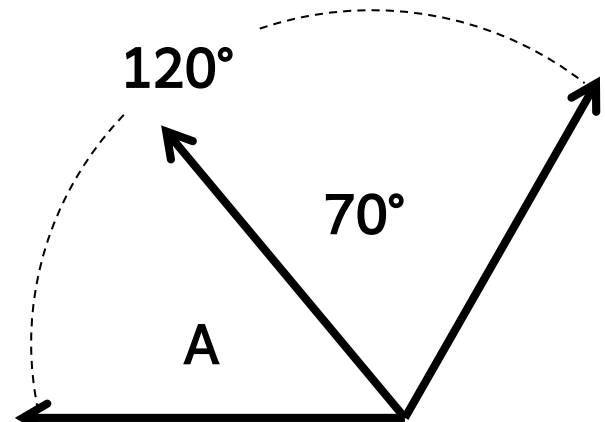
Find the value of angle 'A'.



4.MD.7

4

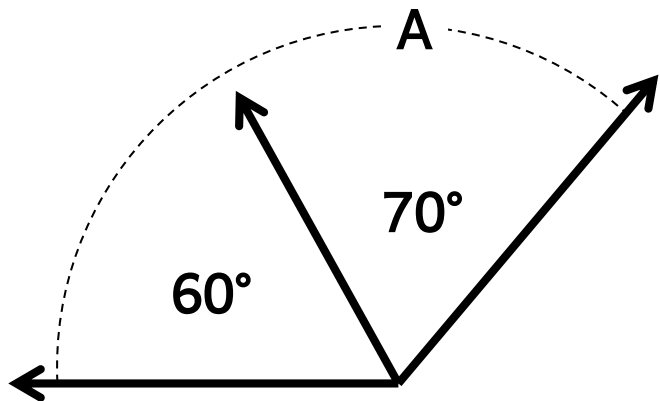
Find the value of angle 'A'.



4.MD.7

5

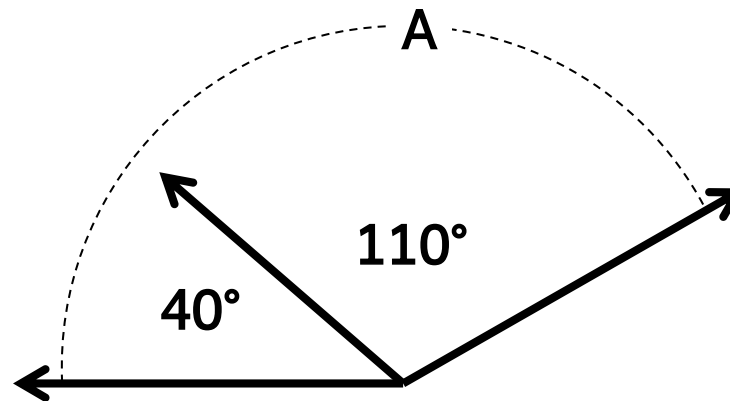
Find the value of the entire angle, 'A'.



4.MD.7

6

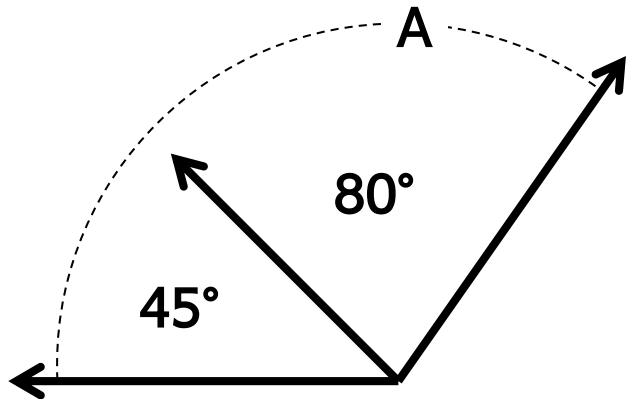
Find the value of the entire angle, 'A'.



4.MD.7

7

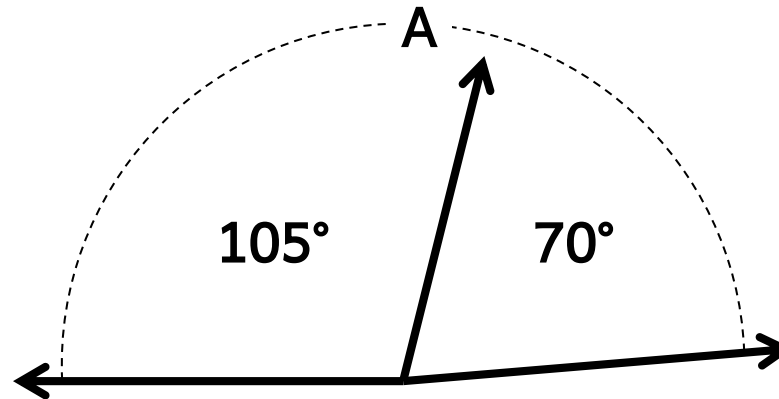
Find the value of the entire angle, 'A'.



4.MD.7

8

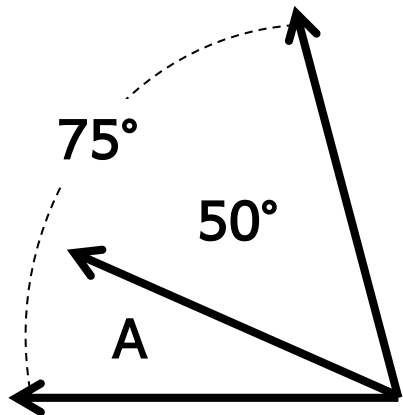
Find the value of the entire angle, 'A'.



4.MD.7

9

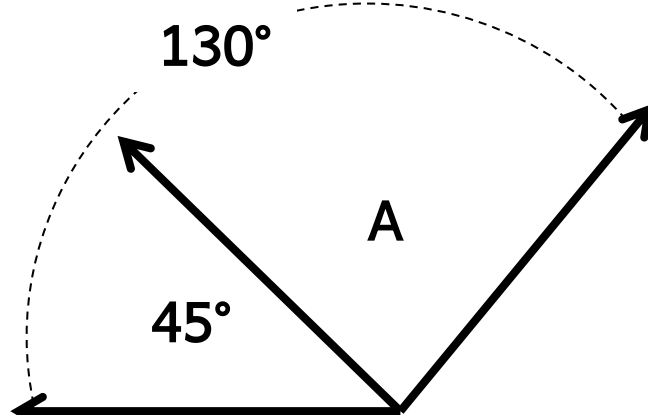
Find the value of angle 'A'.



4.MD.7

10

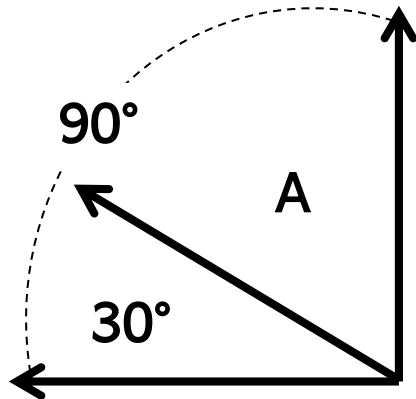
Find the value of angle 'A'.



4.MD.7

11

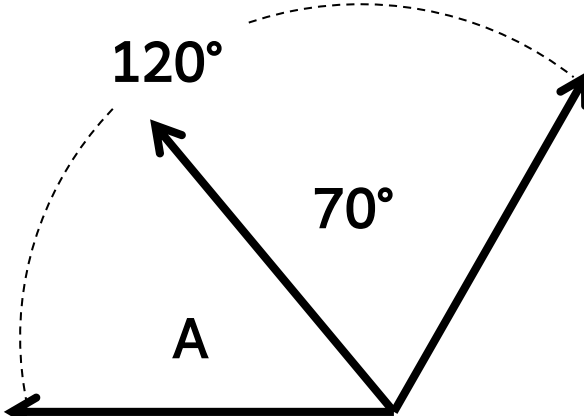
Find the value of angle 'A'.



4.MD.7

12

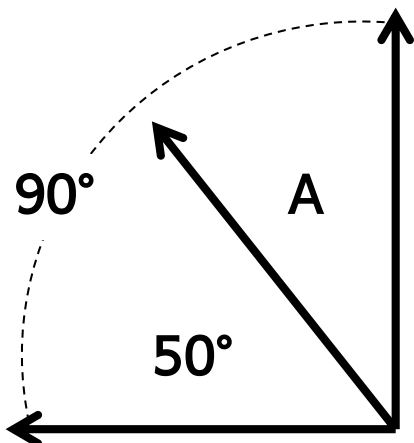
Find the value of angle 'A'.



4.MD.7

13

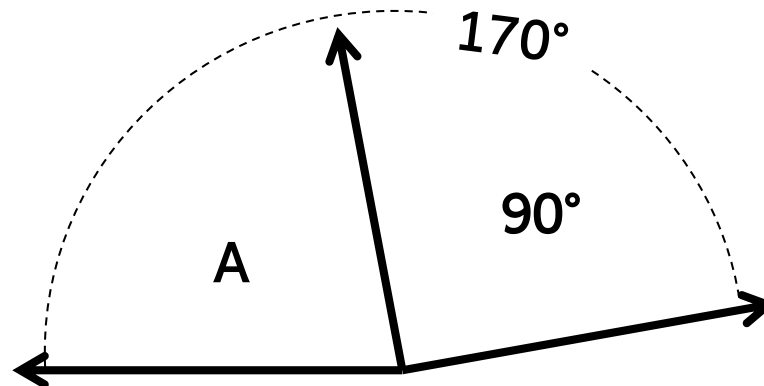
Find the value of angle 'A'.



4.MD.7

14

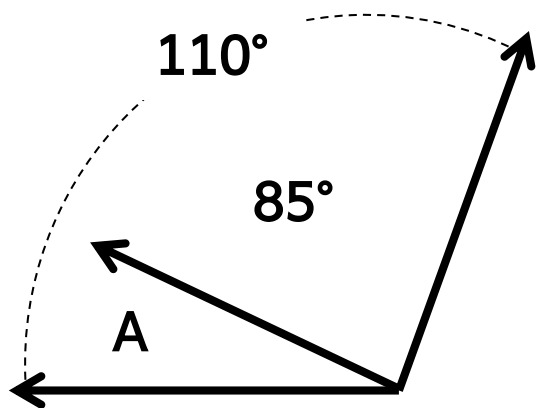
Find the value of angle 'A'.



4.MD.7

15

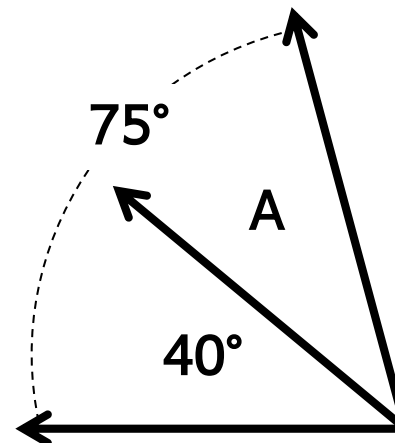
Find the value of angle 'A'.



4.MD.7

16

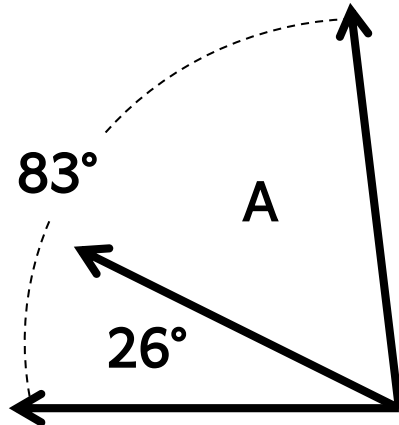
Find the value of angle 'A'.



4.MD.7

17

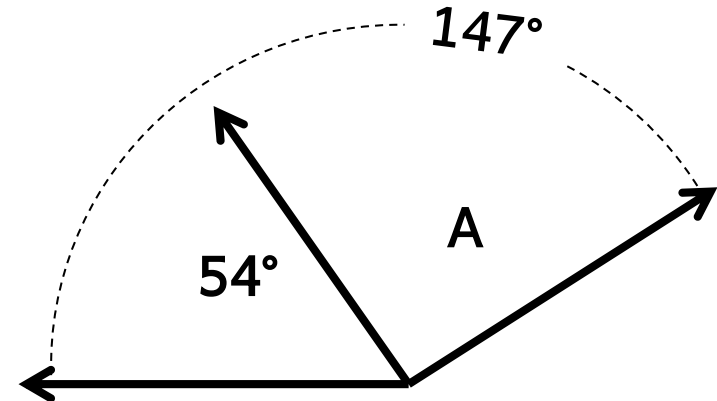
Find the value of angle 'A'.



4.MD.7

18

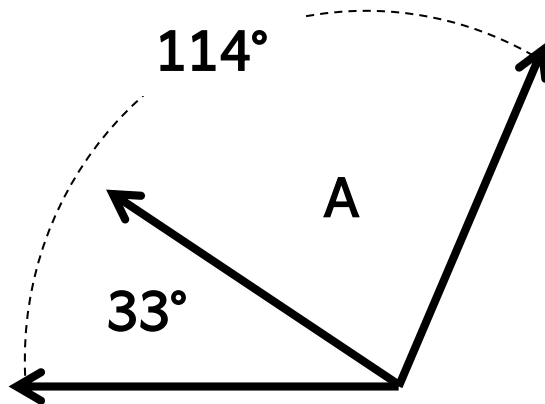
Find the value of angle 'A'.



4.MD.7

19

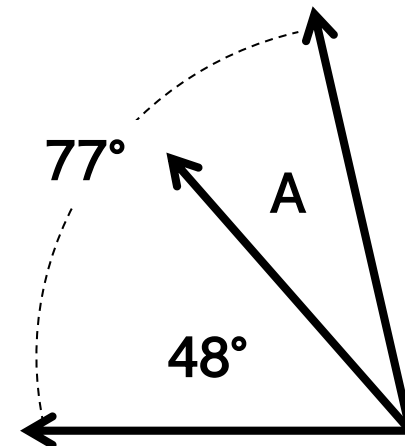
Find the value of angle 'A'.



4.MD.7

20

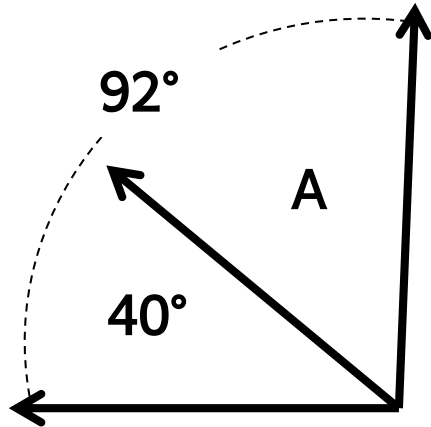
Find the value of angle 'A'.



4.MD.7

21

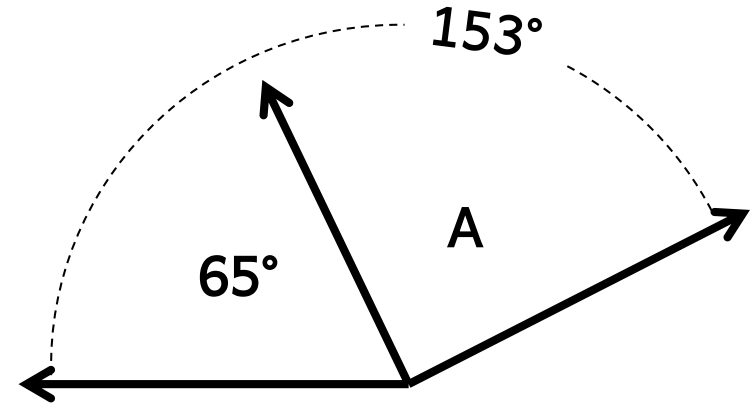
Find the value of angle 'A'.



4.MD.7

22

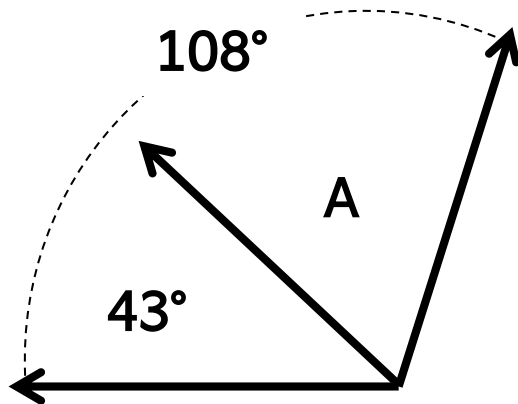
Find the value of angle 'A'.



4.MD.7

23

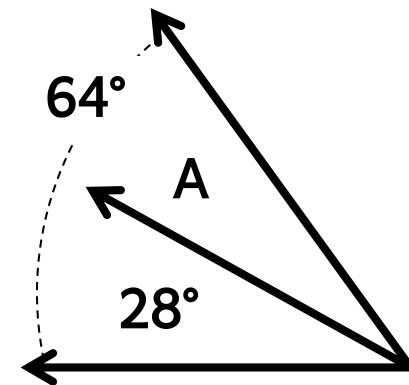
Find the value of angle 'A'.



4.MD.7

24

Find the value of angle 'A'.



4.MD.7

Recognizing Angles

ANSWER KEY

1. 180°	2. 90°	3. 60°	4. 50°
5. 130°	6. 150°	7. 125°	8. 175°
9. 25°	10. 85°	11. 60°	12. 50°
13. 40°	14. 80°	15. 25°	16. 35°
17. 57°	18. 93°	19. 81°	20. 29°