

**GRADE 4**  
**Mathematics**

**Administered May 2021**

**RELEASED**



0

□ 3

1

1

N 025

4

2

□ G

0

0 □ P

3

(2)

□ □ □ □

4

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

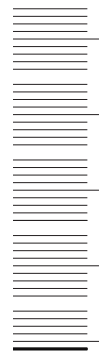
□ □ □ □

□ □ □ □

□ □ □ □

□ □ □ □

7





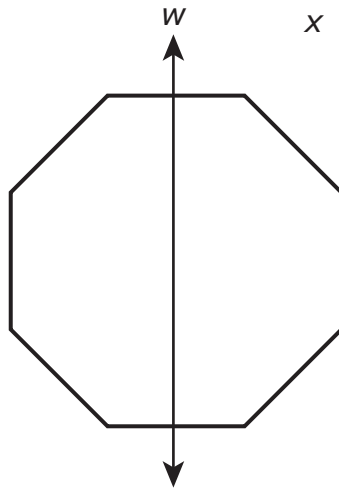


# MATHEMATICS

## DIRECTIONS

Read each question carefully. For a multiple-choice question, determine the best answer to the question from the four answer choices provided. For a griddable question, determine the best answer to the question. Then fill in the answer on your answer document.

- 1 The figure shows a regular octagon. The width of the octagon is  $w$  and the height is  $x$ . The area of the octagon is  $A$ . Which of the following is the correct expression for  $A$  in terms of  $w$  and  $x$ ?





2. The metric system was developed by scientists in the late 1700s. It is based on the meter and the kilogram. The metric system is used in most countries in the world. It is also used in the United States for scientific purposes.

F - + - + - + - = -

G - + - = -

H - + - = -

J + + - + - = -

3. The metric system is used in most countries in the world. It is based on the meter and the kilogram. The metric system is used in the United States for scientific purposes.

$$(\times \dots) + (\times \dots)$$

What is this metric unit called?

A . . . .

B . . . .

C . . . .

D . . . .



6 hoch im eie is hit cates



---

11 A general election is held every 5 years. The total number of votes is 10 million. The number of votes for each party is given in the table below.

A  $\frac{1}{5} = 0.2$

B  $\frac{1}{10} = 0.1$

C  $\frac{1}{20} = 0.05$

D  $\frac{1}{25} = 0.04$

12 a has a mass of 2 kg. The total mass of the object is 10 kg.

13 The ist sh s the le gths i de timete s s me t ats. The le gth h e t at is misbi g.



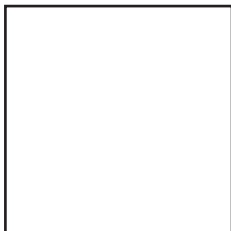
The t at that  the boat boats.

The the

Theboat at the le gth the t at



14 The 10th a







19 The e a e ase a ca s that i e s te j t ags. Each ag h s  
ase a ca s.

H m ags a e e e a the ase a ca s

A .

B . .

C

D 7 .

---

20 The m e is shaf e t e e s t a is



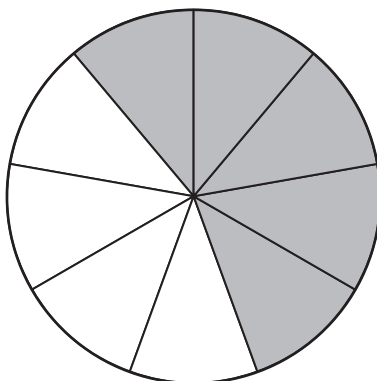
23 A chest has 50 marbles. The probability of drawing a red marble is  $\frac{1}{5}$ . What is the total number of marbles in the chest?

- A 10
- B 25
- C 50
- D 75

24 A number is written in the form  $2.34 \times 10^5$ .

The digit in the hundreds place is a

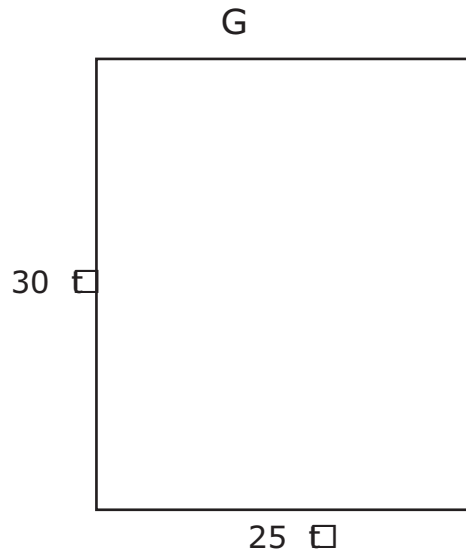
25 The shaded sectors represent the same amount of activity as a smaller circle that has a diameter of 4 units. What is the diameter of the larger circle?



What is the diameter of the larger circle?

- A —
- B —
- C —
- D —

26 Ha is has a ecta g a ga e hi his ac a . The time si s a e sh bi  
eet.



28 This chart shows the commission rates.

	— < —
	— < —
	— < —
	— < —

Which of these commission rates is the highest?

F

G

H

J

29 A car is bought for \$10,000. It is sold for a profit of \$1,000.

The car is sold for a profit of \$1,000. It is sold for a profit of \$1,000.

The car is sold for a profit of \$1,000. It is sold for a profit of \$1,000.

What is the total amount of profit that the car makes?

A

B

C

D

30 Path the a ase a 7 mete s\_ hich acti\_ is e 7 a\_ t t 7

F  $\frac{7}{\dots}$

G  $\frac{\dots}{7}$




H  $\frac{7}{\dots}$

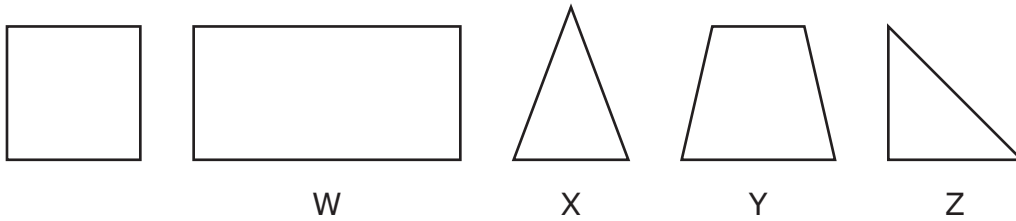
J  $\frac{\dots}{7}$












































33 A g  iges is sh  -
















hich ist sh  s a the iges the g  that a  ea t ha e at east e ight  g e

- A iges T  \$ 
- B iges T  \$ - 
- C iges T  \$ - 
- D iges  \$ - 

34 The ta e sh  s a e at shi et e   m e s    m e s  m e s   
  m e Mach e

hich  e d e  s e t   the    m e h e the   m e is  g i 

- F -
- G ×
- H ×
- J +

B	Y	Y	N W
	N	N W	N .











**STAAR  
GRADE 4  
Mathematics  
May 2021**

