

**GRADE 4**  
**Mathematics**

**Administered May 2021**

**RELEASED**



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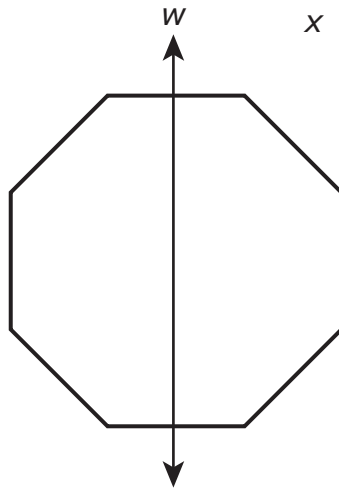


# MATHEMATICS

## 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  $A$ .





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 t cate\$



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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 force acting on it is 20 N.

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.



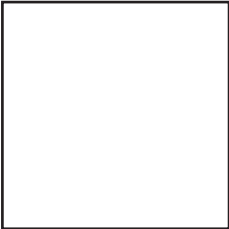
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14 The 10th a







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 .

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



23 A chest has 500 marbles. The probability of drawing a red marble is  $\frac{1}{5}$ . What is the total number of marbles in the chest?

A 100

B 250

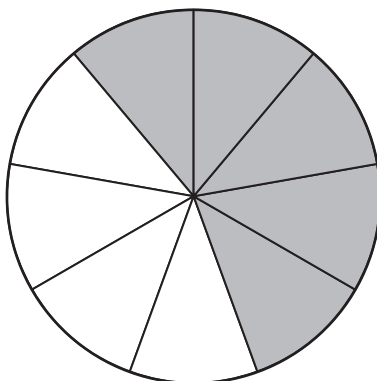
C 500

D 750

24 A rectangular prism has a length of 10 units, a width of 8 units, and a height of 6 units. What is the surface area of the prism?

The digit in the hundreds place is a

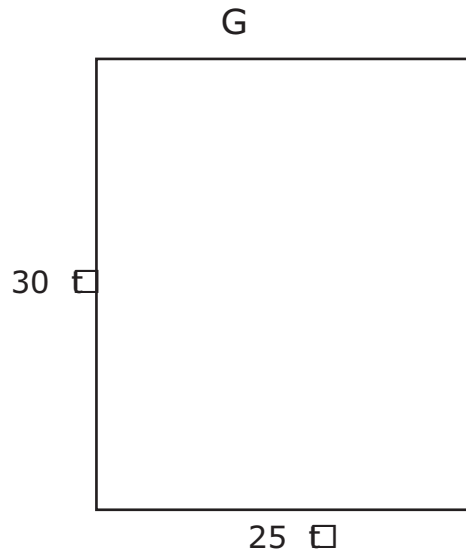
25 The shaded sectors represent the same amount of activity as a smaller circle that has a diameter of 4 units. What is the diameter of the larger circle?



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 \$8,000. What is the percentage loss?

The car is bought for \$10,000 and sold for \$8,000. The percentage loss is 20%.

The car is bought for \$10,000 and sold for \$8,000. The percentage loss is 25%.

What is the total amount of money that the car is bought for and sold for?

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  $\frac{7}{\dots}$

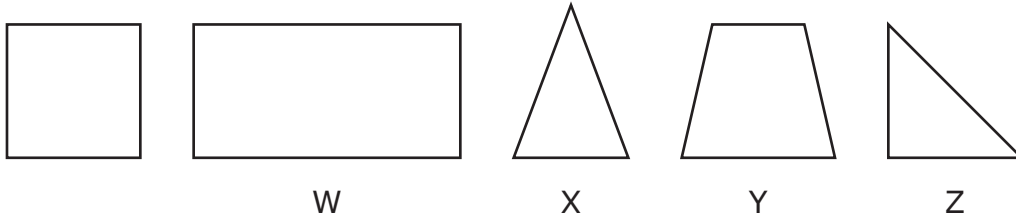
J  $\frac{\dots}{7}$







33 A g  $\square$  ig  $\square$  es is sh  $\square$  .



hich ist sh  $\square$  s a the ig  $\square$  es  $\square$  the g  $\square$  that a  $\square$  ea t ha e at east  $\square$  e ight  $\square$  g e

- A ig  $\square$  es T  $\square$   $\square$   $\square$
- B ig  $\square$  es T  $\square$   $\square$   $\square$   $\square$
- C ig  $\square$  es T  $\square$   $\square$   $\square$   $\square$
- D ig  $\square$  es  $\square$   $\square$   $\square$   $\square$

34 The ta e sh  $\square$  s a e ati  $\square$  shi et e  $\square$   $\square$   $\square$   $\square$  m e s  $\square$   $\square$   $\square$   $\square$  m e s  $\square$   $\square$  m e Machi e

$\square$ $\square$	$\square$ $\square$

hich  $\square$  e d  $\square$  e  $\square$  s e t  $\square$   $\square$  the  $\square$   $\square$   $\square$  m e he thei  $\square$   $\square$  m e is gi  $\square$

- F -
- G  $\times$
- H  $\times$
- J +

B	Y	Y	N W
	N	N W	N .











STAAR  
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