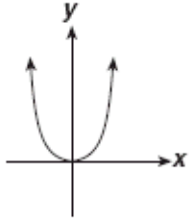
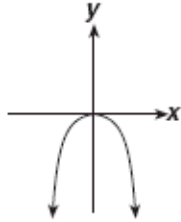


7th Grade Standards Test

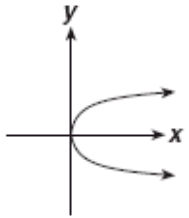
1 Which graph shows $y = -x^2$



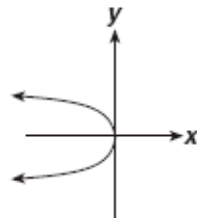
A



C



B



D

2 What shows 833,000 written in scientific notation?

- A. 8.33×10^3
- B. 8.33×10^4
- C. 8.33×10^5
- D. 8.33×10^6

3 If $x = 4$ and $y = 3$, then $xy - 2x =$

- A. 4
- B. 6
- C. 19
- D. 40

4 What is the value of x if $-3x+2 = -7$?

- A. $x = -6$
- B. $x = -3$
- C. $x = 3$
- D. $x = 6$

5 How many millimeters are in 20 centimeters?

- A. 0.02 millimeters
- B. 0.2 millimeters
- C. 200 millimeters
- D. 20,000 millimeter

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6

$$\left(\frac{2}{3}\right)^4 =$$

- A. $\frac{8}{81}$
- B. $\frac{16}{81}$
- C. $\frac{8}{3}$
- D. $\frac{16}{3}$

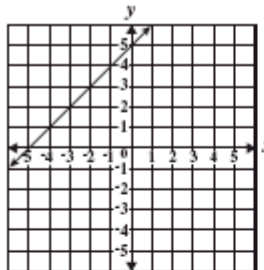
7

$$\sqrt{225}$$

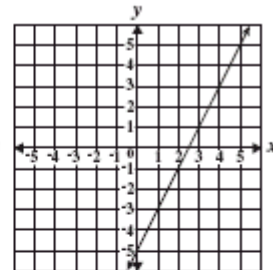
- A. 15
- B. 25
- C. 35
- D. 45

8

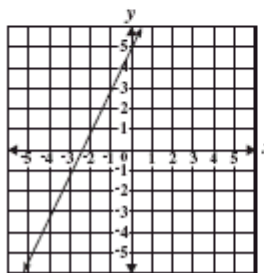
Which *best* represents the graph of $y = 2x - 5$?



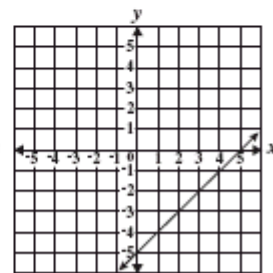
A



C



B



D

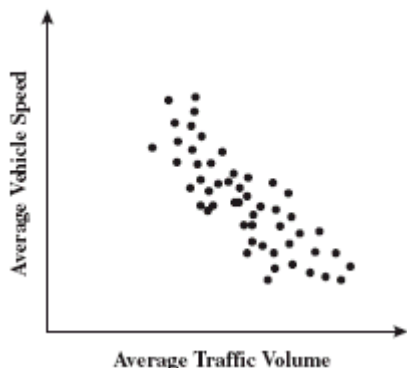
9

Marisa's car gets an average of 28 miles per gallon of gas. She plans to drive 200 miles today and 220 miles tomorrow. How many gallons of gas should she expect to use in all?

- A. 15 gallons
- B. 28 gallons
- C. 56 gallons
- D. 67 gallons

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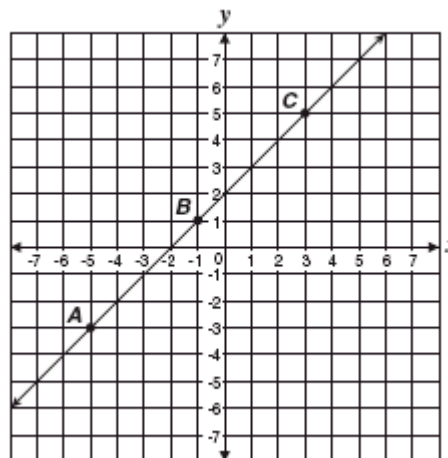
- 10 The scatter plot below shows the average traffic volume and average vehicle speed on a certain freeway for 50 days in 1999.



Which statement *best* describes the relationship between average traffic volume and average vehicle speed shown on the scatter plot.

- A. As traffic volume increases, vehicle speed increases.
- B. As traffic volume increases, vehicle speed decreases
- C. As traffic volume increases, vehicle speed increases at first, then decreases.
- D. As traffic volume increases, vehicle speed decreases at first, then increases.

- 11 Which statement is true about the slope of line \overleftrightarrow{AC} ?



- A. The slope is the ratio of the x- and y-intercepts.
- B. The slope is the same between any two points on the line.
- C. The slope between point A and point B is greater than the slope between point B and Point C.
- D. The slope between point A and Point C is greater than the slope between point A and point C.

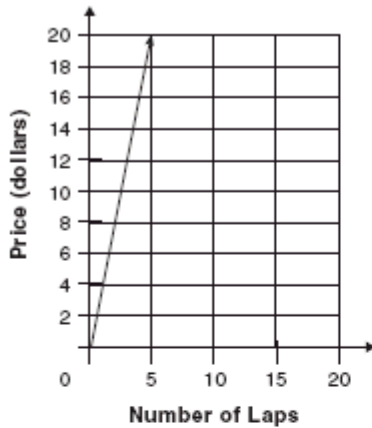
7th Grade Standards Test

12 The table below shows the charges for renting and racing a go-cart.

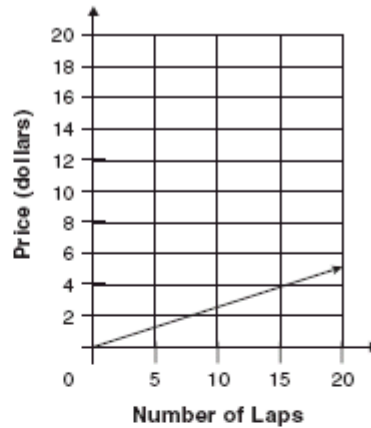
Grand Prix Go-Carts

Number of Laps	0	1	2	3	4	5
Price (dollars)	5	8	11	14	17	20

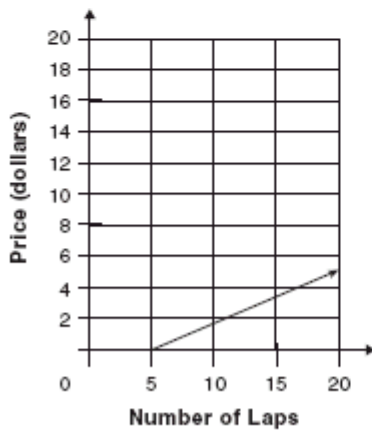
Which graph *best* represents these prices?



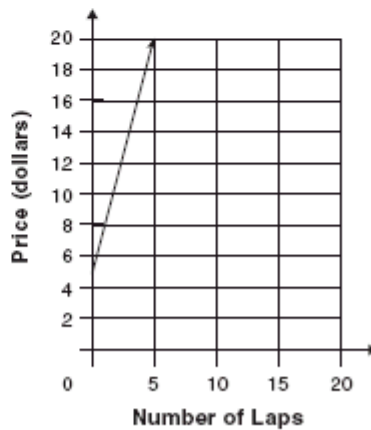
A



C



B



D

7th Grade Standards Test

13

Which operation will change the value of any nonzero number?

- A. adding zero
 - B. multiplying by zero
 - C. multiplying by one
 - D. dividing by one
-

14

Which expression has the *smallest* value?

- A. $|-19|$
 - B. -34
 - C. 11
 - D. 47
-

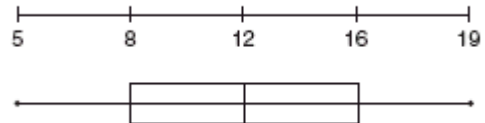
15

Roberto paid \$43.08 for 3 CDs. All 3 CDs were the same price. How much did each CD cost?

- A. \$11.36
- B. \$14.36
- C. \$40.08
- D. \$46.08

16

The following data represent the number of years different students in a certain group have gone to school together: 12, 5, 8, 16, 15, 9, 19. These data are shown on the box-and-whisker plot below.



What is the median of the data?

- A. 5
 - B. 8
 - C. 12
 - D. 16
-

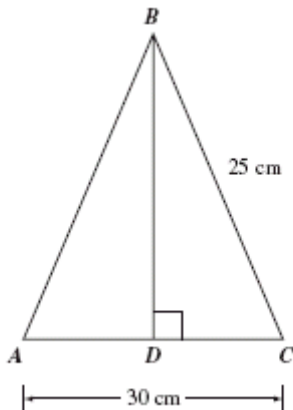
17

Marl borrowed \$200 at 12% simple interest for one year. If he makes no payments that year, how much interest will he owe at the end of the year?

- A. \$6.00
- B. \$12.00
- C. \$22.40
- D. \$24.00

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- 18 In the figure below, D is the midpoint of \overline{AC} , and BD is perpendicular to AC .



What is the length of \overline{BD} ?

- A. 15 centimeters
- B. 16 centimeters
- C. 18 centimeters
- D. 20 centimeters

- 19 Which expression is equivalent to $7^5 \times 7^{10}$?

- A. 7^{15}
- B. 7^{50}
- C. 49^{15}
- D. 49^{50}

- 20 A duck flew at 18 miles per hour for 3 hours, then at 15 miles per hour for 2 hours. How far did the duck fly in all?

- A. 69 miles
- B. 75 miles
- C. 81 miles
- D. 84 miles

- 21 The chart below describes the speed of four desktop printers.

Printer	Description
Roboprint	Prints 2 pages per second
Voltronn	Prints 1 page every 2 seconds
Vantek Plus	Prints 160 pages in 2 minutes
DLS Pro	Prints 100 pages per minute

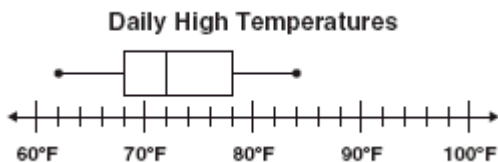
Which printer is the *fastest*?

- A. Roboprint
- B. Voltronn
- C. Vantek Plus
- D. DLS Pro

7th Grade Standards Test

22

The box-and-whisker plot below represents the daily high temperatures at a beach in April.



- A. 68°F
- B. 72°F
- C. 78°F
- D. 84°F

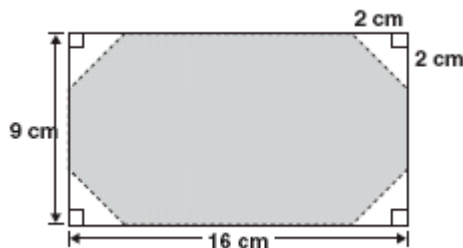
23

Tasha is buying a CD that is regularly \$12.99 and is on sale for $\frac{1}{4}$ off. Which expression can she use to estimate the discount on the CD?

- A. $0.0025 \times \$13$
- B. $0.04 \times \$13$
- C. $0.25 \times \$13$
- D. $0.40 \times \$13$

24

Cherie cut four congruent triangles off the corners of a Rectangle to make an octagon, as shown below.



What is the area of the shaded octagon?

- A. 128 cm^2
- B. 136 cm^2
- C. 140 cm^2
- D. 152 cm^2

25

Which expression is equivalent

to $\frac{8a^6}{2a^3}$?

- A. $6a^2$
- B. $6a^3$
- C. $4a^2$
- D. $4a^3$

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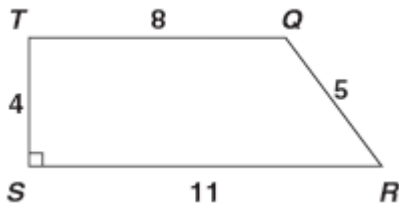
26

Which of the following is equivalent to $\frac{5}{2}$?

- A. 2.25
 - B. 2.5
 - C. 5.2
 - D. 5.25
-

27

What is the area of trapezoid QRST in square units? $\left(A = \frac{1}{2}h(b_1 + b_2) \right)$



- A. 22
 - B. 27
 - C. 38
 - D. 48
-

28

Which property is used in the equation below?

$$12(x + 4) = 12x + 48$$

- A. Associative Property of Addition
- B. Commutative Property of Addition
- C. Distributive Property
- D. Reflexive Property

29

Jason bought a jacket on sale for 50% off the original price and another 25% off the discounted price. If the jacket originally cost \$88, what was the final sale price that Jason paid for the jacket?

- A. \$22
 - B. \$33
 - C. \$44
 - D. \$66
-

30

Which of the following has the same value of $5^6 \times 5^{-2}$?

- A. 5^{-12}
 - B. 5^{-3}
 - C. 5^4
 - D. 5^8
-

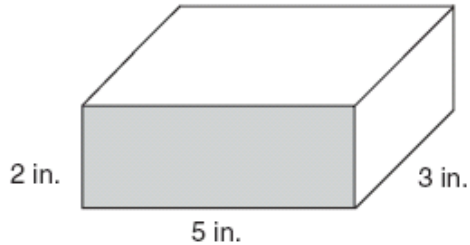
31

Tamika works in a shoe store and is paid 12% commission on her sales. In January her sales total was \$3740. To the nearest dollar, how much did Tamika earn in commission for January?

- A. \$312
- B. \$449
- C. \$3291
- D. \$4189

7th Grade Standards Test

- 32 What is the volume of the rectangular solid shown below?



- A. 10 cubic inches
B. 25 cubic inches
C. 30 cubic inches
D. 62 cubic inches

- 33 What is the solution set to the inequality $6z + 5 > 35$?

- A. $\{z: z < 5\}$
B. $\{z: z < 24\}$
C. $\{z: z > 5\}$
D. $\{z: z > 24\}$

- 34 Juanita earns \$36 for 3 hours of work. At that rate how long would she have to work to earn \$720?

- A. 12 hours
B. 20 hours
C. 60 hours
D. 140 hours

- 35 Joan needs \$60 for a class trip. She has \$32. She can earn \$4 an hour mowing lawns. If the equation shows this relationship, how many hours must Joan work to have the money she needs?

$$4h + 32 = 60$$

- A. 7 hours
B. 17 hours
C. 23 hours
D. 28 hours



7th Grade Standards Test

Question Number	Correct Answer
1	C
2	C
3	A
4	C
5	C
6	B
7	A
8	C
9	A
10	B
11	B
12	D
13	B
14	B
15	B
16	C
17	D
18	D
19	A
20	D
21	A
22	B
23	C
24	B
25	D
26	B
27	C
28	C
29	B
30	C
31	B
32	C
33	C
34	C
35	A