

Test  
**3**

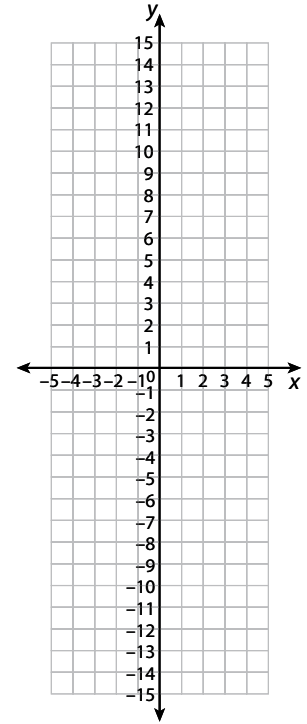
# Practice Test

20

Ling is going to graph the equation  $y = 3x + 1$ .

## Part A

Graph Ling's equation using each of the integer values for  $x$  from  $-4$  to  $4$ .



## Part B

- Use what you know about graphing equations to explain how you made your graph. Use words, numbers, and/or symbols in your explanation.
- What is the slope of your graph? Use what you know about slope to explain why your answer is correct. Use words, numbers, and/or symbols in your explanation.

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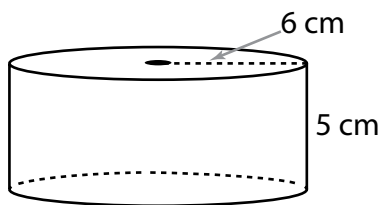


# Practice Test

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What is the approximate volume of the cylinder below? Use 3.14 for  $\pi$ .



- (A)  $94.2 \text{ cm}^3$
- (B)  $113.04 \text{ cm}^3$
- (C)  $391.2 \text{ cm}^3$
- (D)  $565.2 \text{ cm}^3$

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The table shows the number of students that play each sport at Midtown Middle School.

**Sports**

Sport	Number of Students
Basketball	23
Track	32
Soccer	30
Swimming	35

If you were to make a circle graph with this data, what would be the measure of the central angle for soccer?

- (F)  $30^\circ$
- (G)  $45^\circ$
- (H)  $90^\circ$
- (J)  $120^\circ$

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# Practice Test

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Which has the greatest value?

- (A)  $|8|$
- (B) 13
- (C)  $-12$
- (D)  $|-21|$

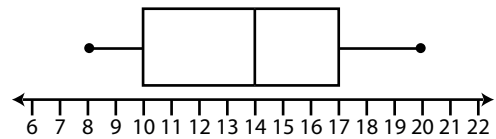
24

Melanie is making lemonade for a picnic. If 6 lemons cost \$2.88 and Melanie needs 20 lemons, how much money will she spend?

- (F) \$8.64
- (G) \$9.60
- (H) \$17.28
- (J) \$57.60

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Below is a box-and-whisker plot of Scott's scores in the basketball games he has played this season.



What do the numbers 14 and 17 represent in the box-and-whisker plot?

- (A) the first and third quartiles
- (B) the median and first quartile
- (C) the median and maximum
- (D) the median and third quartile

# Practice Test

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What is the eighth term in the following pattern?

2, 8, 32, 128...

	/	/	/	
⊙	⊙	⊙	⊙	⊙
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

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Which expression is equivalent to the following expression?

$$2a + 6b - 6a + b - 8 + 10a$$

- Ⓐ  $6a + 6b - 8$
- Ⓑ  $6a + 7b - 8$
- Ⓒ  $14a + 7b + 8$
- Ⓓ  $18a + 7b - 8$

