

MCAS Mathematics - Grade 6 - Week of May 11

Question 5: Multiple-Choice

Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.2



What is the value of the expression below when $\square = 3$?

$$2(\square) + 5$$

- A. 6
- B. 7
- C. 10
- D. 11

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Question 10: Open-Response

Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.4



Lucinda earns \$20 each week. She spends \$5 each week and saves the rest. The table below shows the total amount that she saved at the end of each week for 4 weeks.

Lucinda's Savings at the End of Each Week

Week	1	2	3	4
Total Amount Saved	\$15	\$30	\$45	\$60

Lucinda continues to save at the same rate.

- a. What will be Lucinda's total amount saved at the end of 7 weeks? Show or explain how you got your answer.
- b. Use numbers, words, or symbols to write an expression that represents Lucinda's total amount saved at the end of n weeks.
- c. How many weeks will it take for Lucinda to save \$300? Show or explain

how you got your answer.

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Question 16: Multiple-Choice

Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.7



In which of the following tables do the data show a constant rate of change in the total distance traveled during a four-hour trip?

A. **Distance Traveled**

Time (hours)	Total Distance (miles)
1	50
2	80
3	140
4	230

B. **Distance Traveled**

Time (hours)	Total Distance (miles)
1	30
2	60
3	120
4	240

C. **Distance Traveled**

Time (hours)	Total Distance (miles)
1	60
2	120
3	150
4	165

D. **Distance Traveled**

Time (hours)	Total Distance (miles)
1	50
2	100
3	150
4	200

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Question 20: Multiple-Choice

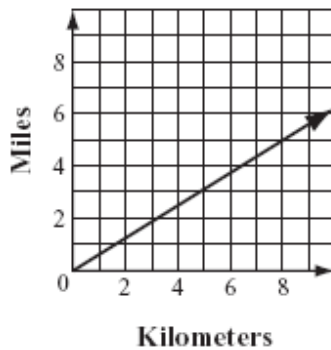
Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.6



The graph below shows the relationship between distance measured in kilometers and distance measured in miles.

Measures of Distance



Which of the following is closest to the number of miles that is equivalent to 4 kilometers?

- A. 1.5 miles
- B. 2.5 miles
- C. 5.8 miles
- D. 6.2 miles

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Question 21: Multiple-Choice

Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.3



What is the value of n that makes the equation below true?

$$\frac{n}{3} = 12$$

- A. 4
- B. 9
- C. 15
- D. 36

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Question 24: Multiple-Choice

Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.4



The cost for labor at a car repair center is shown in the table below.

Car Repair Costs

Hours	Total Cost
1	\$ 60
2	\$120
3	\$180
4	\$240

Based on the data in the table, which

of the following expressions represents the total cost, in dollars, of a repair that requires h hours of labor?

- A. $h + 60$
- B. $h - 60$
- C. $h \times 60$
- D. $h \div 60$

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Question 32: Multiple-Choice

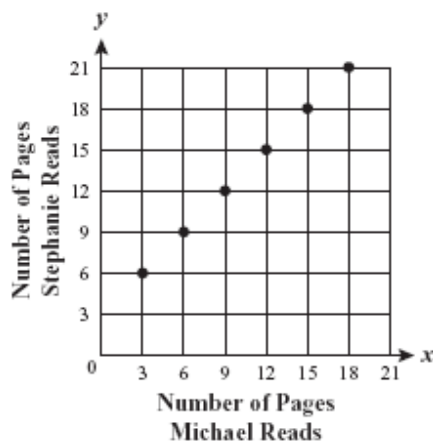
Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.6

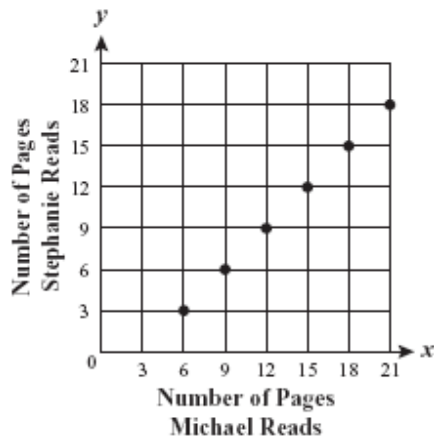


Each night, Stephanie reads 3 more pages of her book than Michael reads of his book. Which of the following graphs correctly represents the relationship between the number of pages Stephanie reads each night and the number of pages Michael reads each night?

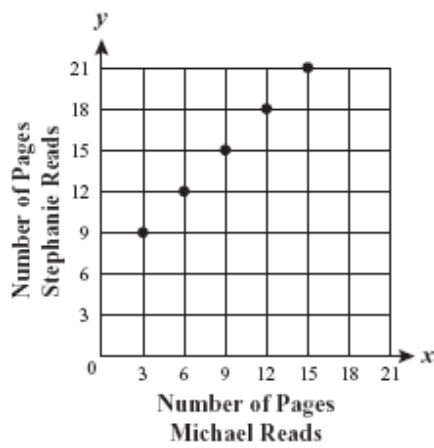
A. **Pages Read Each Night**



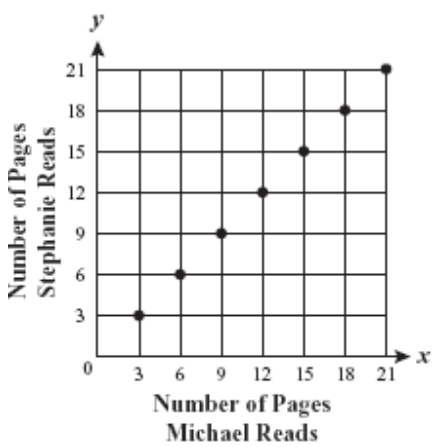
B. Pages Read Each Night



C. Pages Read Each Night



D. Pages Read Each Night



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Question 34: Multiple-Choice

Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.1



A comet passed by Earth in the year 1835. It passes by Earth every 60 years.

Based on this information, in which of the following years can the comet be expected to pass by Earth?

- A. 2035
- B. 2060
- C. 2075
- D. 2080

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Question 36: Multiple-Choice

Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.1



Which of the following could be the rule used to create the number pattern shown below?

250, 130, 70, 40, 25

- A. Subtract 120.
- B. Subtract 10; then divide the result by 2.
- C. Divide by 2.
- D. Divide by 2; then add 5 to the result.

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Question 38: Multiple-Choice

Reporting Category: Patterns, Relations, and Algebra

Standard: 6.P.5



Karen purchased a new camera for \$60. She also purchased 5 rolls of film. The total cost of the camera and the rolls of film was \$90. Karen's purchase is represented by the equation below. In the equation, f stands for the cost of each roll of film.

$$5f + 60 = 90$$

What was the cost of each roll of film that Karen purchased?

- A. \$6
- B. \$12
- C. \$18
- D. \$30

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