Number Patterns

Math

Name_____ Class_____ Date_____

1 Bob has started running. The first day he ran for 10 minutes. The next day he ran for 15 minutes. The next day, 22.5 minutes. If he runs for a week, how many minutes will he run on the **seventh day**?

A 76 minutes
B 33.75 minutes
C 52.5 minutes
D 113.9 minutes

2 What are the **next three numbers** of this pattern?

99	89	80	72	?	?	?

A 64, 56, 48
B 63, 54, 45
C 65, 59, 54
D 64, 57, 51

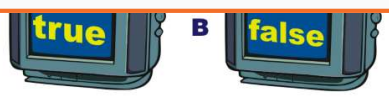
3 A pattern of numbers is described as "each number is 3 times the previous number minus 1." What are the **first four numbers** if the pattern starts at 10?

4 A train travels from city to city. After 10 seconds it has traveled 14 feet. After 20 seconds, 28 ft, and after 30 seconds, 56 ft. How far did the train travel **after 60 seconds**?

5

7

A true **B** false



B 10, 15, 16
C 10, 13, 14
D 10, 13, 17

9 Using **prime factorization**, which expression would **equal** 120?

A $2 \cdot 3 \cdot 5$
B $2 \cdot 3^2 \cdot 5$
C $2^2 \cdot 3 \cdot 5$
D $2^3 \cdot 3 \cdot 5$

10 In the pattern, **2, 14, 26, 38…**, what **describes** the pattern?

A multiply by 7
B add 12
C add 8
D add 12, 14, 16, etc.

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A

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B

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C

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B