

## **Number Patterns**



Name \_\_\_\_\_ Date\_\_\_\_



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



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



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



5

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?



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?



## **PREVIEW**



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





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

- A 2 · 3 · 5
- **B**  $2 \cdot 3^2 \cdot 5$
- C 22 · 3 · 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.



## **Number Patterns**



Name Class Date Bob has started running. The first day he What are the next three numbers of ran for 10 minutes. The next day he ran for this pattern? 15 minutes. The next day, 22.5 minutes. If he runs for a week, how many minutes will he run on the seventh day? DA 64, 56, 48 A 76 minutes **B** 63, 54, 45 B 33.75 minutes C 65, 59, 54 C 52.5 minutes D 64, 57, 51 D 113.9 minutes A train travels from city to city. After 3 A pattern of numbers is described as 10 seconds it has traveled 14 feet. "each number is 3 times the previous After 20 seconds, 28 ft, and after 30 number minus 1." What are the first seconds, 56 ft. How far did the train four numbers if the pattern starts at 10? travel after 60 seconds? 5 B **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet (C)**B** 10, 15, 16 C 10, 13, 14 **D** 10, 13, 17 9 Using prime factorization, which 10 In the pattern, 2, 14, 26, 38..., what expression would equal 120? describes the pattern? A multiply by 7 A 2 · 3 · 5 (B)  $\mathbf{B}\ 2\cdot 3^2\cdot 5$ B add 12 C 22 · 3 · 5 C add 8  $D 2^3 \cdot 3 \cdot 5$ D add 12, 14, 16, etc.