



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



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?

- A 10, 29, 86, 257
- B 10, 30, 90, 270

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

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?**

- A 448 feet
- B 417 feet



5



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7

A



B



- A 10, 14, 18
- 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.



## ANSWER KEY

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



(d)

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

**99 89 80 72 ? ? ?**

(c)

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

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 10, 29, 86, 257
- B 10, 30, 90, 270
- C 10, 20, 40, 80

(a)

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?**

- A 448 feet
- B 417 feet
- C 310 feet

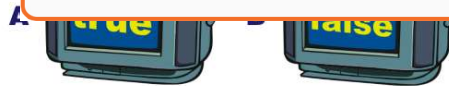


(a)



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

(d)

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.

(b)