



Name _____ Class _____ Date _____

1 A pattern is described as “each number is two and a half times larger than the previous number.” What numbers represent this pattern?

- A 2, 5, 7.5, 11.25
- B 3, 7.5, 15, 22.5
- C 4, 6, 15, 37.5
- D 5, 12.5, 31.25, 78.125

2 What are the next three numbers of this pattern?



- A 34, 43, 52
- B 37, 49, 61
- C 36, 47, 58
- D 38, 52, 67

3 At the hardware store, paint is displayed in stacked rows of paint cans. There are 2 less cans in each row. On the bottom row, there are 11 cans. How many paint cans are there all together?

- A 36 cans
- B 22 cans
- C 33 cans
- D 28 cans



4 In the number pattern, 8, 16, 24, 32, 40, 48..., there is more than one pattern that describes it.



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7 How many more cans are needed for the display?

- A 15
- B 13
- C 10
- D 9



- B $2^0 \cdot 7$
- C $2^5 \cdot 7 \cdot 3$
- D $2^3 \cdot 7 \cdot 4$

9 What are the next three numbers of the pattern?



- A 46, 69, 103
- B 61, 121, 241
- C 62, 124, 248
- D 63, 127, 255

10 At an auto shop, cases of oil are stacked on top of each other. On the bottom row, there are 20 cases. Each row has 2 less cases than the one below it. How many cases are used in all?

- A 90
- B 110
- C 111
- D 120





ANSWER KEY

A pattern is described as “each number is two and a half times larger than the previous number.” What numbers represent this pattern?

- A 2, 5, 7.5, 11.25
- B 3, 7.5, 15, 22.5
- C 4, 6, 15, 37.5
- D 5, 12.5, 31.25, 78.125

(d)

What are the next three numbers of this pattern?

3 14 25 ? ? ?

(c)

- A 34, 43, 52
- B 37, 49, 61
- C 36, 47, 58
- D 38, 52, 67

At the hardware store, paint is displayed in stacked rows of paint cans. There are 2 less cans in each row. On the bottom row, there are 11 cans. How many paint cans are there all together?

- A 36 cans
- B 23 cans
- C 45 cans
- D 28 cans



(a)

In the number pattern, 8, 16, 24, 32, 40, 48..., there is more than one pattern that describes it.



(a)



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- A 15
- B 13

- C 10
- D 9



What are the next three numbers of the pattern?

1 3 7 15 31 ? ? ?

(d)

- A 46, 69, 103
- B 61, 121, 241
- C 62, 124, 248
- D 63, 127, 255

At an auto shop, cases of oil are stacked on top of each other. On the bottom row, there are 20 cases. Each row has 2 less cases than the one below it. How many cases are used in all?

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- B 110
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- D 120



(b)