Multiples and factors quiz

Level A

1. 18, 24 and 30 are all multiples of three.
   A) True
   B) False

2. 5 is a multiple of 20.
   A) True
   B) False

3. Which list is made up of multiples of 4?
   A) 1, 4, 40
   B) 8, 16, 36
   C) 12, 22, 28
   D) 4, 14, 24

4. The multiples of 5 all end in 0 or 5.
   A) True
   B) False

5. Six has all the following factors...
   A) 1, 2, 3, 6
   B) 3, 6, 12, 18
   C) 2, 4, 6

6. Five has only two factors.
   A) True
   B) False

7. The factors of 24 include...
   A) 1, 6, 9
   B) 1, 8, 12
   C) 1, 5, 12
   D) 15, 30, 48
Multiples and factors quiz

8. The missing number in this sequence 4, 7, __, 13 is...

   A) 6  
   B) 8  
   C) 10  
   D) 16

9. The next number in this sequence 9, 13, 17, 21, ___ is...

   A) 25  
   B) 26  
   C) 27  
   D) 28

10. The third square number is...

    A) 6  
    B) 9  
    C) 33
Multiples and factors quiz

Level B

1. 12, 24 and 42 are all multiples of 6.
   A) True
   B) False

2. 62 is a multiple of 8.
   A) True
   B) False

3. Which list is made up of multiples of 7?
   A) 14, 25, 35
   B) 19, 26, 33
   C) 21, 35, 52
   D) 7, 14, 70

4. The sixth multiple of nine is...
   A) 45
   B) 15
   C) 69
   D) 54

5. The factors of 28 are...
   A) 7, 14, 21
   B) 1, 6, 28
   C) 2, 4, 7, 14
   D) 1, 2, 4, 7, 14, 28

6. The factors of 35 are...
   A) 1, 3, 5, 35
   B) 5, 15, 20, 35
   C) 1, 5, 7, 35
   D) 1, 2, 4, 7, 35
Multiples and factors quiz

7. Seven is a factor of...
   A) 14, 27 and 72
   B) 21, 28 and 42
   C) 1, 7 and 14
   D) 37, 47 and 57

8. What is the missing number in this sequence?
   39, 34, 29, __, 19
   A) 9
   B) 22
   C) 24
   D) 26

9. The missing number in this sequence 72, 36, __, 9 is...
   A) 18
   B) 30
   C) 20
   D) 21

10. What is the next pattern?

    a)
    b)
    c)
   A) a)
   B) b)
   C) c)
Multiples and factors quiz

Level C

1. 45, 63 and 70 are all multiples of 7.
   A) True
   B) False

2. 54 is a multiple of both 8 and 9.
   A) True
   B) False

3. The eighth multiple of 6 is 48.
   A) True
   B) False

4. The factors of 36 include...
   A) 12, 15, 36
   B) 1, 6, 36
   C) 2, 4, 8
   D) 1, 13, 18

5. 9 is a factor of...
   A) 1, 3 and 9
   B) 9 and 49
   C) 45 and 54
   D) 28 and 82

6. The next number in the sequence 4, 7, 11, 16 is...
   A) 22
   B) 23
   C) 26
   D) 32

7. The next number in the sequence 1, 3, 9, 27 is...
   A) 37
   B) 42
   C) 72
   D) 81
Multiples and factors quiz

8. What is the next pattern in the sequence?

![Pattern Image]

A) a)  
B) b)  
C) c)

9. The seventh square number is...

A) 14  
B) 35  
C) 49  
D) 100

10. Which of these is not a square number?

A) 2  
B) 9  
C) 49  
D) 100
Multiples and factors quiz

Answers

Level A

1. 18, 24 and 30 are all multiples of three.
   The correct answer is: A. True. $3 \times 6 = 18$, $3 \times 8 = 24$ and $3 \times 10 = 30$.

2. 5 is a multiple of 20.
   The correct answer is: B. False. 5 is a factor of 20, not a multiple of 20.

3. Which list is made up of multiples of 4?
   The correct answer is: B. 8, 16, 36.

4. The multiples of 5 all end in 0 or 5.
   The correct answer is: A. True. E.g. $1 \times 5 = 5$, $4 \times 5 = 20$, $7 \times 5 = 35$, $10 \times 5 = 50$.

5. Six has all the following factors...
   The correct answer is: A. 1, 2, 3, 6.

6. Five has only two factors.
   The correct answer is: A. True. 5 is a prime number – it can only be divided by 1 and itself (5).

7. The factors of 24 include...
   The correct answer is: B. 1, 8 and 12 are all factors of 24.
Multiples and factors quiz

8. The missing number in this sequence 4, 7, __, 13 is...
   The correct answer is: C. 10. Each term is three more than the one before it.

9. The next number in this sequence 9, 13, 17, 21, ___ is...
   The correct answer is: A. 25. Each term is four more than the one before it.

10. The third square number is...
    The correct answer is: B. 9. The third square number is $3 \times 3$, so 9 is the correct answer.
Multiples and factors quiz

Level B

1. 12, 24 and 42 are all multiples of 6.
   The correct answer is: A. True. $6 \times 2 = 12 \quad 6 \times 4 = 24$ and $6 \times 7 = 42$.

2. 62 is a multiple of 8.
   The correct answer is: B. False. The nearest multiple is 64 ($8 \times 8 = 64$).

3. Which list is made up of multiples of 7?
   The correct answer is: D. 7, 14, 70 is the list made up of multiples of 7.

4. The sixth multiple of nine is...
   The correct answer is: D. $6 \times 9 = 54$

5. The factors of 28 are...
   The correct answer is: D. 1, 2, 4, 7, 14, 28 are the factors of 28, which includes 1 and 28.

6. The factors of 35 are...
   The correct answer is: C. 1, 5, 7 and 35 are the factors of 35, which includes 1 and 35.

7. Seven is a factor of...
   The correct answer is: B. 21, 28 and 42 are the factors of seven.
8. What is the missing number in this sequence?

39, 34, 29, __, 19

The correct answer is: C. 24. Each term is five lower than the one before.

9. The missing number in this sequence 72, 36, __, 9 is...

The correct answer is: A. 18. Each term is half the one before.

10. What is the next pattern?

The correct answer is: B. The answer is pattern (b). A column of three dots is added each time.
Multiples and factors quiz

Level C

1. 45, 63 and 70 are all multiples of 7.
   The correct answer is: B. False. 45 is not a multiple of 7.

2. 54 is a multiple of both 8 and 9.
   The correct answer is: B. False. 54 is a multiple of 9 but not of 8.

3. The eighth multiple of 6 is 48.
   The correct answer is: A. True because $6 \times 8 = 48$.

4. The factors of 36 include...
   The correct answer is: B. 1, 6, 36 are included in the factors of 36.

5. 9 is a factor of...
   The correct answer is: C. 45 and 54 are the numbers for which 9 is a factor.

6. The next number in the sequence 4, 7, 11, 16 is...
   The correct answer is: A. 22. The difference between terms increases by 1 each time.
   ($4 + 3 = 7$, $7 + 4 = 11$, $11 + 5 = 16$ and so $16 + 6 = 22$).

7. The next number in the sequence 1, 3, 9, 27 is...
   The correct answer is: D. 81. Each term is three times the one before it.
Multiples and factors quiz

8. What is the next pattern in the sequence?

The correct answer is: C. The answer is pattern (c).

9. The seventh square number is...

The correct answer is: C. $7 \times 7 = 49$.

10. Which of these is not a square number?

The correct answer is: A. 2 is not a square number.