Cbse class 7 maths integers worksheets pdf

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$$2x = 6$$
Add 3 to both sides
$$2x + 3 = 9 \quad ....(2)$$

Q 17: A number exceeds the other number by 10. If the sum of the numbers is 80 then the numbers will be

(a) 20 and 60.
(b) 45 and 35.
(c) 30 and 50.
(d) 40 and 40.

Ans: (b)
Explanation:
Let the number = x
Then, other number = x - 10
Sum of two numbers = 80   (Given)
Therefore,
x + (x – 10) = 80
⇒   2x - 10 = 80
⇒ 2x = 80 + 10   (Transposing (-10) from L.H.S. to R.H.S.)
⇒   2x = 90
⇒   x = 45   (Divide both sides by 2)
Hence, the numbers are 45 and 35.

Q 18: The length of a rectangular field is twice its breadth. If the perimeter of the field is 120m then the length and breadth will be

(a) 20 and 40.
(b) 30 and 20.
(c) 40 and 20.
(d) 25 and 35.

Ans: (c)
Explanation:

Chapter - 1
Integers

Q 1: If x + (-62) = -121, then the value of x will be

(a) -183.
(b) -59.
(c) 59.
(d) 183.

Ans: (b)
Explanation: x + (-62) = -121
or x – 62 = -121
or x = -121 + 62 = -59.

Q 2: If 42 = -6a, then the value of a will be

(a) −6.
(b) -7.
(c) -8.
(d) -9.

Ans: (b)
Explanation: 42 = -6a
or -6a = 42
or a = 42/(-6) = -7.

Q 3: The ascending order of 45, -29, 21, -45 and 23 is

(a) -45, -29, 21, 23, 45.
(b) 21, 23, 45, −45, -29.
(c) 21, 23, -29, 45, -45.
(d) 45, 23, 21, -29, -45.

Ans: (a)
Explanation:
[Ascending order means arranging the numbers from the smallest to the greatest]

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10. $\frac{-3}{5} \cdot \frac{35}{7} \cdot \frac{-1}{9} = ?$

(a) $\frac{-1}{3}$ (b) $\frac{1}{3}$

(c) $\frac{2}{3}$ (d) $\frac{2}{3}$

10. (c) $= \frac{-3}{5} \cdot \frac{35}{7} \cdot \frac{-1}{9}$

$= \frac{-3 \times 5 \times 1}{9}$

$= \frac{1}{3}$

11. The length and the breadth of a rectangle are $\frac{5}{6}$ m and $\frac{2}{3}$ m respectively. The perimeter of its rectangle is _____

(a) $\frac{43}{12}$ m   (b) $\frac{37}{12}$ m

(c) $\frac{43}{6}$ m   (d) $\frac{41}{12}$ m

11. (c) Its given that, length $= \frac{5}{6}$ m and breadth $= \frac{2}{3}$ m
we know that perimeter of the rectangle = 2(length+breadth)
perimeter $= 2(\frac{5}{6} + \frac{2}{3}) = 2(\frac{5 + 28}{12}) = 2 \times \frac{43}{12}$

$= \frac{43}{6}$ m

12. $\frac{3}{14} \div (\frac{-9}{56}) = ?$

(a) $\frac{4}{3}$ (b) $\frac{-4}{3}$

(c) $\frac{3}{4}$ (d) none of them

12. (d) $\frac{3}{14} \div (\frac{-9}{56}) = \frac{3}{14} \times \frac{56}{-9}$ by a ÷ b = a × $\frac{1}{b}$

$= \frac{-4}{3}$

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CBSE Sample Paper Class 7 Maths Set 1

Max. Marks 80

Section A contains 10 questions which carries 1 mark each (1 x 10 = 10)
Section B contains 9 questions which carries 2 marks each (2 x 10 = 20)
Section C contains 9 questions which carries 4 marks each (4 x 5 = 20)
Section D contains 6 questions which carries 6 marks each (6 x 5 = 30)

Topics:

- Comparing Quantities
- Practical Geometry
- Perimeter and Area
- Symmetry
- Visualizing Solid

Section A

1. Find the perimeter of a rectangle whose length is 25 cm and breadth is 18 cm.
2. Write frequency of all the numbers in the following data.
   8, 5, 8, 5, 3, 4, 7, 9, 7, 4, 3, 5, 3, 6, 4, 8
3. Find the number of lines of symmetry of a circle.
4. What will be the number of faces if there are 6 vertices and 12 edges?
5. ΔABC is right angled at B. AB = 3 cm and BC = 4 cm. Then, length of AC will be
   a) 25 cm
   b) 5 cm
   c) 7 cm
   d) 6 cm
6. Find the area of a square whose side is 6 cm.
7. A survey shows the ages of 10 teachers of a school as 32,41,26,54,33,38,40,59,43,29. What is the age of the youngest teacher?

8. The number of faces of a triangular pyramid or tetrahedron is _____.
   a) 5
   b) 4
   c) 6
   d) 10

9. There are 2 red, 3 blue and 5 black balls in a bag. A ball is drawn from the bag without looking in to the bag. What is the probability of getting a red ball?
   a) $\frac{2}{5}$
   b) $\frac{1}{5}$
   c) $\frac{2}{5}$
   d) None of these

10. What is the circumference of a circular disc of radius 14 cm?

Section B

11. A kennel can accommodate 10 dogs that weigh (in pounds) 14, 23, 17, 19, 27, 7, 33, 24, 11 and 13. Find the range of their weights.

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