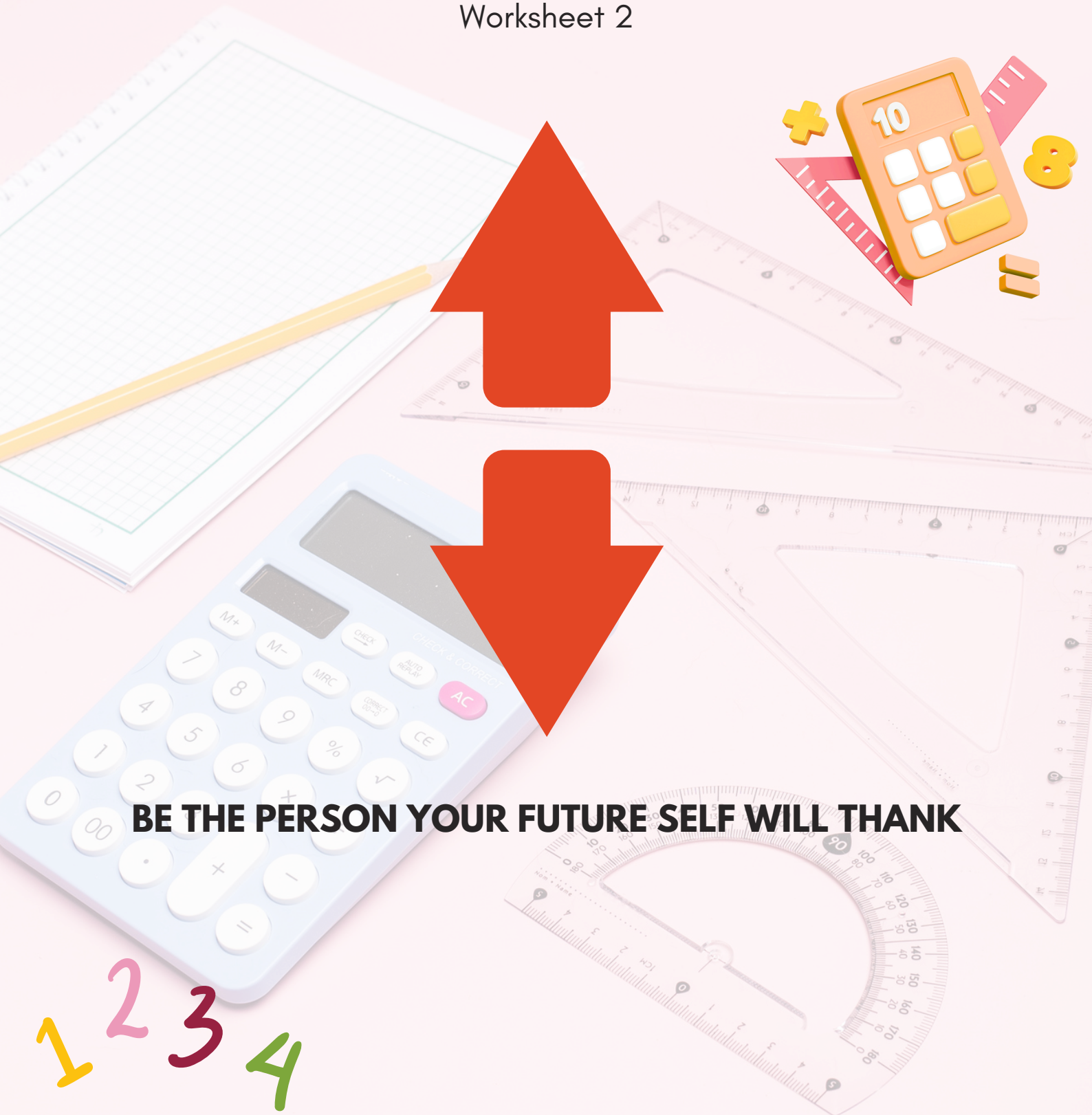




DIRECT & INVERSE PROPORTION

Worksheet 2



BE THE PERSON YOUR FUTURE SELF WILL THANK

1. A and B have money in the ratio 2 : 1. If A gives ₹ 2 to B, the money will be in the ratio 1 : 1. What were the initial amounts they had?

- A. ₹ 12 and ₹ 6 B. ₹ 16 and ₹ 8 B. ₹ 8 and ₹ 4 D. ₹ 8 and ₹ 4
-

2. 200 persons had food provision for 48 days. If 40 persons left the place, then the food will last for _____

- A. 60 days B. 120 days C. 40 days D. 80 days
-

3. If $A : B = 5 : 6$ and $B : C = 7 : 8$, then by approximately what percent is C more than A?

- A. 36% B. 40% C. 37.14% D. 48.23%
-

4. If 20 pumps of equal capacity can fill a tank in 7 days, then how many more such pumps will be required to fill the tank in 5 days?

- A. 28 B. 16 C. 8 D. 7
-

5. A water pump pumps out $14\frac{1}{6}$ L of water per minute from a reservoir. How many litres of water will be pumped out in $14\frac{1}{6}$ of an hour?

- A. 1125 L B. 3120 L C. 1020 L D. 1560 L
-

6. If a and b vary inversely to each other, then find the value of $\frac{p+q}{2}$.

a	6	p	90
b	q	5	2

- A. 30 B. 33 C. 36 D. 66
-

7. The numerator and the denominator of a rational number are in the ratio 5 : 7. When 6 is added to both the numerator and denominator, the ratio becomes 4 : 5. What is the rational number?

- A. $\frac{7}{5}$ B. $\frac{5}{7}$ C. $\frac{2}{5}$ D. $\frac{13}{14}$
-

8. A train 270 m long is moving with a speed of 25 km/hr. In what time will it cross a man coming from the opposite direction with a speed of 2 km/hr in which the train is moving?

- A. 36 sec B. 32 sec C. 28 sec D. 24 sec
-



scroll down for Answer key

9. A mixture contains milk and water in the ratio 5 : 1. On adding 5 litres of water, the ratio of milk to water becomes 5 : 2. Find the quantity of milk in the original mixture.

- A. 38 L B. 40 L C. 39.5 L D. 38.5 L
-

10. A patient in a hospital is given soup daily in a cylindrical bowl of diameter 7 cm. If the bowl is filled with soup to a height of 4 cm, how much soup the hospital has to prepare daily to serve 250 patients?

- A. 38 L B. 40 L C. 39.5 L D. 38.5 L
-



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Answer Key

- 1.D
- 2.A
- 3.C
- 4.C
- 5.D
- 6.D
- 7.B
- 8.A
- 9.D
- 10.D



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