Construction of Quadrilaterals

1. Construct a parallelogram ABCD, given that

 $AB = 4 \text{ cm}, \quad Ac = 6 \text{ cm} \quad \text{and}$

$$BD = 7 cm$$

- 2. Construct a rhombus given that $l_1 = 9$ cm and $l_2 = 6.8$ cm
- 3. Construct a square whose diagonal is 7 cm
- 4. Construct a quadrilateral PQRS, given that PQ = 6.5 cm, QR = 4 cm, $\angle O = 90^{\circ} = \angle S$ and $\angle R = 120^{\circ}$

5. Construct an isosceles trapezium ABCD, AB \parallel DC, AB = 4.7 cm \angle A = 120 $^{\circ}$ and AD = 4 cm

Compound Interest

- 1. Find the compound interest on Rs. 12,000 for 2 years @ 5% p.a., compounded annally.
- 2. Find the simple interest and the compound interest on Rs. 5000 at the rate of 10% p.a. for 3 years.
- 3. Find the amount and the compound interest if P = Rs. 5120, $R = 12\frac{1}{2}$ % p.a. and Time = 3 years.
- 4. The population of a village in 20,000 if the rate of growth of the population is 9% p.a. find the population after 2 years.
- 5. The bacteria in a petridish grow @ 5% per hour. If the count of the bacteria now is 8000, how much will it be after 3 hours?

ANSWERS:

1. Rs. 1230

2 Rs. 1500, Rs. 1655

3. Rs. 7290 , Rs. 2170

4. 23762

5. 9261

Direct and Inverse Variation

- 1. The bus fare for 112 km is Rs. 728. How much will be the fare for 240 km?
- 2. A group of 7 people had enough food for a month. A few more people joined them and the food lasted only for 21 days. How many people joined?

Class VIII. BPS Maths Worksheet

Page 21

- 3. A car travels 132 km on 11 litres of petrol. How far will it travel in 16.5 litres of petrol?
- 4. A car travelling at a speed of 60 km/h can cover a certain distance in 2 hours 20 minutes. If the speed was 10km/h more, how long would it take to cover the same distance?
- 5. Radhika types 270 words in 15 minutes. How many words would she type in 40 minutes?
- A tap fills a tank in 3 hours and another tap can fill it in 6 hours. If both taps are 6. opened together, how long will it take to fill the tank?
- Convert: i) 90 km/h into m/sec 7.
- ii) 15 m/sec into km/h

ANSWERS:

- Rs. 1560 1.
- 2. 3 people
- 3. 198 km
- 4. 2 hours

- 720 words 5.
- 6. 2 hours
- i) 2. 7. i) 25 m/sec
- ii) 54 km/h

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