

Word Problems Solutions:

1.

- 1 The cake was divided into 5 equal parts.
- 2 Each family member received $\frac{1}{5}$ of the cake.

Answer: $\frac{1}{5}$.

2.

- 1 Initially, the cake was divided into 15 equal parts.
- 2 One participant left, leaving 14 participants.
- 3 The remaining cake is $\frac{14}{15}$ of the original cake.

Answer: $\frac{14}{15}$.

3.

- ① Let the number be 'x'.
- ② $(\frac{3}{4}) * x = 81.$
- ③ $x = 81 * (\frac{4}{3})$
- ④ $x = 108.$

Answer: 108.

4.

- ① Let the amount be 'x'.
- ② $(\frac{1}{4}) * x = 270.$
- ③ $x = 270 * 4.$
- ④ $x = 1080.$

Answer: 1080 rupees.

5.

- 1 The difference between the initial and final fullness is $(5/8) - (1/4) = 3/8$.
- 2 This difference represents 6 gallons of oil.
- 3 The total capacity of the tank is $(6 \text{ gallons}) / (3/8) = 16 \text{ gallons}$.

Answer: 16 gallons.

6.

- 1 Let the total number of oranges be 'x'.
- 2 $(5/3) * x = 80$.
- 3 $x = 80 * (3/5)$
- 4 $x = 48$.

Answer: 48 oranges.

- 1 Let the total amount the boy had be 'x'.
- 2 $(5/7) * x = 270$
- 3 $x = 270 * (7/5)$
- 4 $x = 378$.

Answer: 378 rupees.

- 1 $(2/5) * 60 = 24$ footballs sold in the first week.
- 2 $60 - 24 = 36$ footballs left after the first week.
- 3 $36 - 17 = 19$ footballs left after the second week.

Answer: 19 footballs.

- 1 1 foot = 12 inches.
- 2 6 inches / 12 inches = $1/2$.

Answer: $1/2$.

- 1 Let the amount be 'x'.
- 2 $(3/2) * x = 270$.
- 3 $x = 270 * (2/3)$
- 4 $x = 180$.

Answer: 180 rupees.

- 1 Let the total capacity of the tank be 'x' gallons.
- 2 $(3/8) * x - 8 = (1/3) * x$.
- 3 $(3/8) * x - (1/3) * x = 8$.
- 4 $(1/24) * x = 8$.
- 5 $x = 8 * 24$.
- 6 $x = 192$.

Answer: 192 gallons.
