

Exercise - 22(A)

1. Solve

$$1) x+2=6 \Rightarrow x+2-2 \Rightarrow 6-2=4; x=4.$$

$$ii) x+6=2 \Rightarrow x+6-6 \Rightarrow 2-6=(-4); x=(-4)$$

$$iii) y+8=5 \Rightarrow y+8-8 \Rightarrow 5-8=(-3); y=(-3)$$

$$iv) x+4=(-3) \Rightarrow x+4-4 \Rightarrow (-3)-4=-7; x=(-7)$$

$$v) y+2=(-8) \Rightarrow y+2-2 \Rightarrow (-8)-2=(-10); y=(-10)$$

2. Solve

$$1) x-3=2 \Rightarrow x-3+3 \Rightarrow 2+3=5; x=5.$$

$$ii) m-2=-5 \Rightarrow m=(-5)+2 \Rightarrow m=-3$$

$$iii) b-5=7 \Rightarrow b-5+5 \Rightarrow 7+5=12; b=12.$$

$$iv) a-2 \cdot 5=(-4) \Rightarrow a=(-4)+2 \cdot 5 \Rightarrow a=(-1+5)$$

$$v) y-3\frac{1}{2}=6 \Rightarrow y-\frac{7}{2}=6 \Rightarrow y=6+\frac{7}{2} \Rightarrow y=\frac{12+7}{2}$$

$$3. \text{ Solve } \Rightarrow y=\frac{19}{2} \Rightarrow y=9\frac{1}{2}.$$

$$1) 3x=12 \Rightarrow x=\frac{12}{3} \Rightarrow x=4$$

$$ii) 2y=9 \Rightarrow y=\frac{9}{2} \Rightarrow y=4\frac{1}{2}$$

$$iii) 5z=8 \cdot 5 \Rightarrow z=\frac{8 \cdot 5}{5} \Rightarrow z=1 \cdot 7.$$

$$iv) 2 \cdot 5m=7 \cdot 5 \Rightarrow m=\frac{7 \cdot 5}{2 \cdot 5} \Rightarrow m=\frac{7 \cdot 5}{2 \cdot 5} \Rightarrow m=3.$$

$$v) 3 \cdot 2p=16 \Rightarrow p=\frac{16}{3 \cdot 2} \Rightarrow p=\frac{16 \cdot 10}{3 \cdot 2} \Rightarrow p=5.$$

4. Solve

$$1) \frac{x}{2}=5 \Rightarrow x=5 \times 2 \Rightarrow x=10$$

$$ii) \frac{y}{3}=(-2) \Rightarrow y=(-2) \times 3 \Rightarrow y=(-6)$$

$$\text{III) } a/5 = (-15) \Rightarrow a = -15 \times 5 \Rightarrow (-75)$$

$$\text{IV) } z/4 = 3\frac{1}{4} \Rightarrow \frac{z}{4} = \frac{13}{4} = z = \frac{13}{4} \times 4 \Rightarrow z = 13$$

$$\text{V) } m/6 = 2\frac{1}{2} \Rightarrow \frac{m}{6} = \frac{5}{2} \Rightarrow m = \frac{5}{2} \times 6 \Rightarrow m = 15$$

5. Solve

$$\text{I) } (-2x) = 8 \Rightarrow x = \frac{8}{-2} \Rightarrow x = (-4)$$

$$\text{II) } (-3 \cdot 5y) = 14 \Rightarrow y = \frac{14}{(-3 \cdot 5)} \Rightarrow y = \frac{(-14 \times 10)}{35} \Rightarrow y = (-4)$$

$$\text{III) } (-5z) = 4 \Rightarrow z = \left(-\frac{4}{5}\right) \Rightarrow z = (-0.8)$$

$$\text{IV) } (-5) = a + 3 \Rightarrow a + 3 = (-5) \Rightarrow a = (-5) - 3 \Rightarrow a = (-8)$$

$$\text{V) } 2 = p + 5 \Rightarrow p + 5 = 2 \Rightarrow p = 2 - 5 \Rightarrow p = (-3)$$