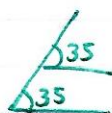
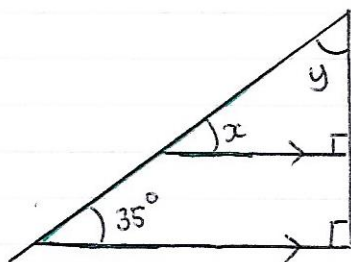


Assessment Preparation 5 : Answers

1)



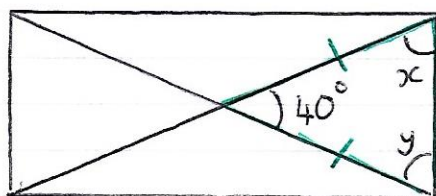
$$x = 35^\circ$$

Then angles in a triangle add up to 180°

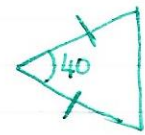
$$y = 180 - 35 - 90$$

$$y = 55^\circ$$

2)



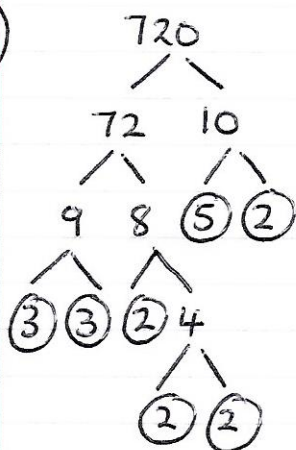
The triangle is isosceles



$$x = \frac{180 - 40}{2} = \frac{140}{2} = 70^\circ$$

$$y = 70^\circ$$

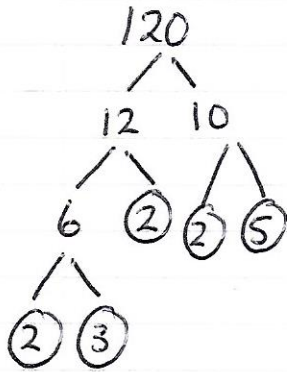
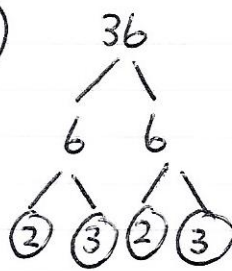
3)



$$720 = 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5$$

$$= 2^4 \times 3^2 \times 5$$

4)



HCF = prime factors in BOTH

5)

a) 4.8×10^{10}

$\uparrow$ $\uparrow$

2.4×2 add powers

b) $8000 \times (3 \times 10^7)$

$$= (8 \times 10^3) \times (3 \times 10^7)$$

$$= 24 \times 10^{10}$$

$$= 2.4 \times 10^{11}$$

$$= 2 \times 2 \times 3$$

$$= 12$$

c) $(2.4 \times 10^{-4}) \times (2 \times 10^2)$

$$= 4.8 \times 10^{-2}$$

$\uparrow$ $\uparrow$

2.4×2 $-4 + 2$