

Answers for Week 12. Mon. 20/04/2020 Pg 207-208 (DAILY PRACTICE)

1  
(a)

$$130^\circ + 110^\circ + 90^\circ + x = 360^\circ$$

$$330^\circ + x = 360^\circ$$

$$330^\circ - 330^\circ + x = 360^\circ - 330^\circ$$

$$0 + x = 30^\circ$$

$$x = 30^\circ$$

(b)

Difference =  $130^\circ - 30^\circ$   
 $= 100^\circ$

100° rep shs. 50,000  
 1 rep shs. 50,000  
 $= \text{shs. } \frac{100}{500}$

360° rep shs.  $500 \times 360$   
 Shs. 180,000

∴ His monthly income = shs. 180,000

Method II

let his monthly income be y.

$$\frac{100}{360} \times y = 50,000$$

$$\frac{100}{360} \times y = 50,000 \times \frac{36}{100}$$

$$\frac{100}{360} \times y = \frac{50,000 \times 36}{100}$$

$$y = \text{Sh. } 180,000$$

C

Difference =  $110^\circ - 90^\circ$   
 $= 20^\circ$

1° rep sh. 500  
 20° rep sh.  $500 \times 20$   
 $= \text{Shs. } 10,000$

2

a) Difference  
 $= 90^\circ - 30^\circ = 60^\circ$   
 60° rep 25,000  
 1 rep  $\frac{25,000}{60}$   
 $= \text{sh. } 416.666667$   
 $360^\circ = 416.666667 \times 360$   
 $= \text{shs. } 150,000$

Method II

let his salary be x

$$\frac{1}{360} \times x = 25,000$$

$$\frac{1}{360} \times x = 25,000 \times \frac{360}{1}$$

$$x = \text{sh. } 150,000$$

b) i) food 37500

$$\frac{9\cancel{4}}{36\cancel{4}} \times \text{shs. } 150,000$$

$$\frac{4}{36} \times 150,000$$

$$\text{shs. } 37,500$$

ii) medical care

$$\frac{6\cancel{0}}{36\cancel{0}} \times 150,000$$

$$\frac{1}{6} \times 150,000$$

$$\text{shs. } 25,000$$

iii) fees

$$\frac{135}{36} \times 150,000$$

$$416.666667 \times 135$$

$$= \text{shs. } 56,250$$

c)  $\frac{37500}{150,000} \times 100\%$

$$= 25\%$$

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a)  $(a+70) + 2a+50 + 2a-20$   
 $+ a + 3a-10 = 360$

$$a+2a+2a+a+3a+70+50-20-10 = 360$$

$$9a + 120 - 30 = 360$$

$$9a + 90 = 360$$

$$9a + 90 - 90 = 360 - 90$$

$$9a + 0 = 270$$

$$\frac{9a}{9} = \frac{270}{9}$$

$$a = 30$$

$$(30+70) - 30$$

$$100 - 30 = 70$$

70° rep 280°

$$\frac{280}{70} = 4$$

4 reps

$$360 \text{ rep } 360 \times 4$$

$$= 1440 \text{ pupils}$$

(9)

Answers for Week 12: Mon 20/4/2020 (Pg 208) DAILY PRACTICE

$$2(a) \quad 35\% + 30\% + 20\% + h = 100\%$$

$$85\% + h = 100\%$$

$$85\% - 85\% + h = 100\% - 85\%$$

$$0 + h = 15\%$$

$$h = 15\%$$

$$\text{Difference} = 35\% - 15\% = 20\%$$

$$20\% \text{ rep sh. } 60,000$$

$$1\% = \frac{\text{sh. } 30,000}{20}$$

$$= \text{sh. } 3,000$$

$$100\% = \text{sh. } 3,000 \times 100$$

$$= \text{sh. } 300,000$$

$\therefore$  His monthly income is sh. 300,000

$$(C) \text{ Different} = 30\% - 20\% = 10\%$$

$$\frac{10}{100} \times \text{shs. } 300,000$$

$$\frac{10}{100} \times \text{shs. } 300,000$$

$$\text{shs. } 30,000 \times 1$$

$$\text{shs } 30,000$$

He spends shs. 30,000 more on rent than food.