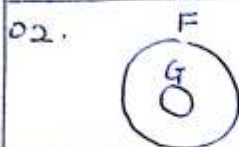


# P.5 MID-TERM

01. 
$$\begin{array}{r} 35 \\ \times 2 \\ \hline 70 \end{array}$$
  $5 \times 2 = 10$   
 $3 \times 2 = 6 + 1$   
 $= 7$



03. 
$$\frac{3}{4} - \frac{1}{4} = \frac{3-1}{4} = \frac{2}{4}$$
  
 $= \frac{1}{2}$

04. 2, 3, 5, 7, 11, 13  
Sum.  
 $11 + 13 = 24$

05. two hundred = 200  
 sixty eight = + 68  
268

06. 1 week = 7 days.  
 3 weeks =  $(3 \times 7)$  days  
 $= 21$  days.

07. 1 picture = 10 oranges.  
 $4\frac{1}{2}$  pictures =  $\frac{9}{2} \times \frac{5}{10}$  oranges  
 $= 45$  oranges.

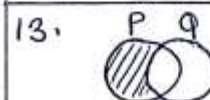
08.  $A = \frac{1}{2} \times b \times h$   
 $A = \frac{1}{2} \times 9 \text{ cm} \times 6 \text{ cm}$   
 $A = 9 \text{ cm} \times 3 \text{ cm}$   
 $A = 27 \text{ cm}^2$

09.   
 $6 \times 1 = 6$   
 $3 \times 1 = 3$   
 $6 \times 2 = 12$   
 $3 \times 2 = 6$   
 $36 \times 12 = 0432$

10. 3 books cost sh. 3,600  
 1 book costs sh.  $\frac{3,600}{3}$   
 $= \text{sh. } 1,200$   
 2 books cost sh.  $1,200 \times 2$   
 $= \text{sh. } 2,400$

11.  $\frac{3}{4} \times \frac{3}{2}$  mangoes  
 $3 \times 3$  mangoes  
 9 mangoes.

12.  $P = \frac{n(b.c)}{n(T.C)}$   
 $= \frac{6}{(6+4)}$   
 $= \frac{6}{10}$



14.  $49 = 40 + 9$   
 $XL IX$   
 $= XLIX$  books

15.  $2p - 3 = 11$   
 $2p - 3 + 3 = 11 + 3$   
 $\frac{2p}{2} = \frac{14}{2}$   
 $p = 7$

16. Profit = S.P. - B.P.  
 sh. 1 <sup>4</sup>/<sub>5</sub> 1,000  
 - sh 1 2,500  
sh 0 2,500



18.  $5 + 5 + 5 + 5 + 3$   
 $10 + 10 + 3$   
 23

$$\begin{array}{r}
 19. \quad \begin{array}{r} \downarrow \text{K} \uparrow \text{H} \uparrow \text{T} \uparrow \text{U} \\ 136^0 \\ + 10 \\ \hline 140 \end{array} \quad 136 \approx 140
 \end{array}$$

20.  $M_4 = \{4, 8, 12, 16, 20, 24, 28, \dots\}$   
 $M_6 = \{6, 12, 18, 24, 30, \dots\}$   
 LCM of 4 and 6 is 24.

SECTION B

21a)

Thousands	Unit
3	045

Three thousand forty-five.

b)  $\overset{\text{Th}}{3} \overset{\text{H}}{0} \overset{\text{T}}{4} \overset{\text{U}}{5}$   
 $(3 \times 1,000) + (4 \times 10) + (5 \times 1)$

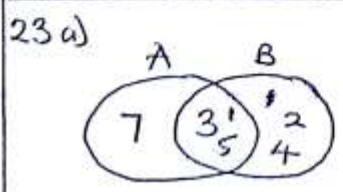
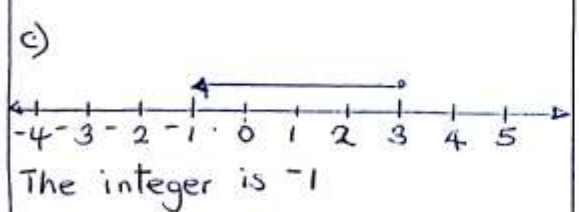
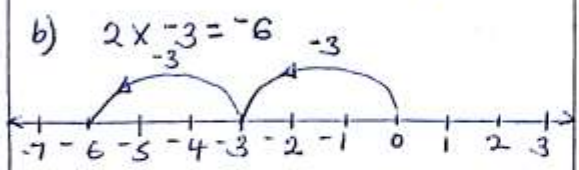
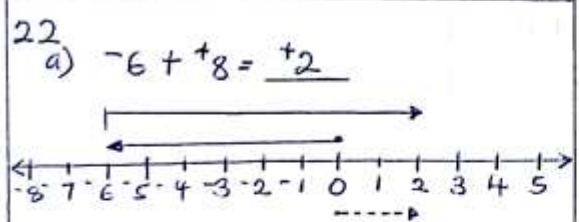
c)

3	0	4	5

$4 \times 10 = 40$   
 Thousands = 1,000

Sum.

$$\begin{array}{r}
 1,000 \\
 + \quad 40 \\
 \hline
 1,040
 \end{array}$$



1)  $B - A = \{2, 4\}$   
 $n(B - A) = 2$

24a)

$\begin{array}{r} \overset{3}{8} \overset{12}{2} 8 \\ - 472 \\ \hline 456 \end{array}$	$\begin{array}{l} 8 - 2 = 6 \\ 12 - 7 = 5 \\ 8 - 4 = 4 \end{array}$
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b)

$\begin{array}{r} 2 \overset{6}{7} \overset{12}{2} \text{ goats} \\ - 47 \text{ goats} \\ \hline 225 \text{ goats} \end{array}$
---

25a)

$\begin{array}{r} \overset{1}{1} \overset{2}{2} \overset{3}{3} \\ + 231 \\ \hline 404 \end{array}$	$\begin{array}{l} 2+3=5 \\ 5 \div 5 = 1 \text{ rem } 0 \end{array}$
--	---

$\text{five} \quad \text{five} \quad \text{five}$

b)

Base	No	Rem
5	19	4
5	3	3
	0	

$= 34_{\text{five}}$

c)  $231_{\text{five}} = \text{two-three-one base five}$

26  $a=3, b=3, c=4$

<p>a) <math>a + b + c</math></p> $  \begin{array}{r}  3 + 3 + 4 \\  6 + 4 \\  \hline  10  \end{array}  $	<p>b) <math>3b + c</math></p> $  \begin{array}{r}  3 \times b + c \\  3 \times 3 + 4 \\  9 + 4 \\  \hline  13  \end{array}  $
--	---

c)  $2ac$

$$\begin{array}{r}
 2 \times a \times c \\
 2 \times 3 \times 4 \\
 6 \times 4 \\
 \hline
 24
 \end{array}$$

27a) Twenty-five minutes past eight.

b) 1 hour = 60 minutes  
 $2\frac{1}{2} \text{ hours} = \frac{5}{2} \times 60 \text{ minutes}$   
 $= 150 \text{ minutes}$

c) 5:35

28. A trouser = sh.  $\frac{18000}{2}$

a)  $= \text{sh. } 9,000$

2 shirts = sh.  $5,000 \times 2$   
 $= \text{sh. } 10,000$

Total

sh. 10,000  
 $+ \text{sh. } 9,000$   
sh. 19,000

Vests	Balance
sh. 2,500	sh. 18,1000
3	sh. 7,500
sh. 7,500	sh. 2,500

29 a) AB Diameter  
 OB Radius

b)  $AB = 12 \text{ cm}$

$OB = \frac{12 \text{ cm}}{2}$   
 $= 6 \text{ cm}$

c) true.

30. Total =  $\frac{9}{9}$

a)  $\frac{9}{9} - \frac{2}{9} = \frac{9-2}{9} = \frac{7}{9}$

b) Number of boys

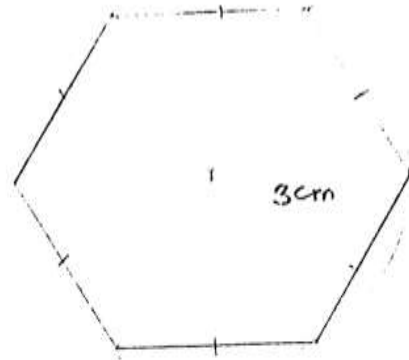
$\frac{2}{9} \times 36$   
 $\frac{2}{9} \times 4$   
8 boys

c) Number of girls

$\frac{1}{9} \times 36$   
 $\frac{1}{9} \times 4$   
28 girls  
 Difference:

$\begin{array}{r} 28 \\ - 8 \\ \hline 20 \end{array}$  more girls.

31 a)



b)  $P = S + S + S + S + S + S$   
 $= 3 \text{ cm} + 3 \text{ cm} + 3 \text{ cm} + 3 \text{ cm} + 3 \text{ cm} + 3 \text{ cm}$   
 $= 6 \text{ cm} + 6 \text{ cm} + 6 \text{ cm}$   
 $= 18 \text{ cm}$

32 a) Aminah.

b) Raniah	Aisha
4 X 5 balls	2 X 5 balls
20 balls	10 balls

Difference

$\begin{array}{r} 20 \text{ balls} \\ - 10 \text{ balls} \\ \hline 10 \text{ more balls} \end{array}$

b) 1 picture = 5 balls  
 10 pictures =  $10 \times 5$  balls  
 $= 50$  balls.

= END =