FA-IV worksheet 2013-14

class - VI   **subject - MAtHs**

1. An aeroplane goes 10 Km in 1 minute. Find the distance covered by the aeroplane in x minutes.

2. How many sticks will be used to make the alphabet E ?

3. Write the algebraic expression for the following -

a) Shyam has x pens. Ram has 15 more pens than Shyam. How many pens to pens Shyam have _____.

b) 21 added to 3x = _____.

c) 45 subtracted from 5x _____

d) 9 times z from which 5 is subtracted.

e) 10 added to the quotient of x and 5.

f) Quotient of X and Y added to the product of a and b.   _____

g) 5 times a number x is equal to 4 less than a number y   _____

i) 8 subtracted from x gives 1   _____

j) y divided by 4 added to 8 gives 1 _____

4. Solve

a) x + 3 = 10   b) 5x = 25   c) x - 4 = 7

d) x = 2
    8   e) 5x - 8 = 2

5. Complete the table using the given formula.

a) x = y + 5

x	2	3	4	5	6
y					

b) a - 7

a	10	9	8	7	11
b					

6. Write the next number in each number patterns.

a) 7, 13, 19, 25 _____   _____   _____

b) 4, 9, 16, _____   _____   _____

c) 70, 56, 42 _____   _____   _____

d) 501, 491, 481 _____   _____   _____

7. A number y is always 10 less than a number x

i) Write down the rule which connects x and y.

ii) Find y when x is 19.

8. Find the ratio for the following in the lowest terms

a) 96 m to 5 km

b) Rs. 9 to 1800 paise

c) 45 minutes to 2 hours

d) 70 g to 2.5 kg

9. Find the value of x

a) 14 : 16 = x : 8

c) 2: 7 :: x : 28

b) 4 : x = 20 : 45

d) x : 3 :: 52 : 39

10. A car travels 360 km in 12 litres of petrol.

i) How muvh distance will it travel in 20 litres of petrol ?

ii) How much petrol is required for travelling 20 km. ?

11. Divide 420 g in the ratio of 2:3.

12. A total 2400 candidates appeared in n examination. If the ratio of males to females is 2 :6, find the number of males and females.

13. Rachna purchased 14 pens for Rs. 35 and Raj purchased 12 pens for Rs. 30. Who bought more expensive pens ?

14. The ratio of racquets to shuttle cock is 14 : 7. If the racquets are 152, find the number of shuttle cocks.

15. What fraction of a revolution does an hour hand of a clock turns when it goes from

i) 5 to 8 in clockwise direction

ii) 2 to 8 in anticlock wise direction

16. Where will the hand of a clock stop if it

i) starts at 6 and makes $\frac{1}{2}$ of a revolution clockwise ?

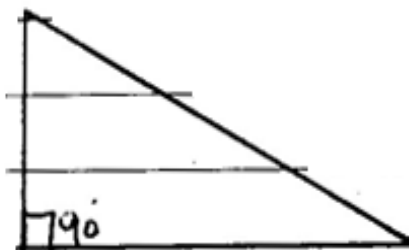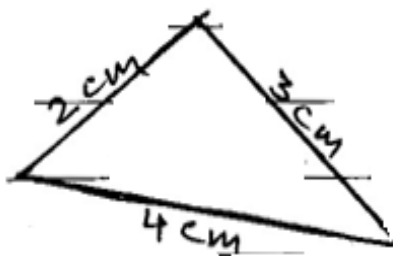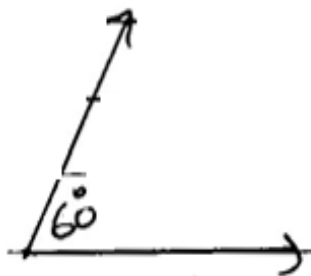ii) starts at 6 and makes $\frac{1}{4}$ of a revolution anticlockwise?

17. Which direction will you face if you start facing

a) North and make $1\frac{1}{2}$ of a revolution clockwise.

b) South and make $\frac{3}{4}$ of a revolution clockwise.

18. Find the number of right angles turned by an hour hand of a clock when it goes from

a)   3 to 9

b)   1 to 10

19. Classify the angles and triangles given below

_____   _____   _____

_____   _____

20. What is common between

a)   a rhombus and a square

b)   a parallelogram and a rectangle

21. How many degrees and there in $\frac{2}{3}$ of a right angle.

22. How many diagonals does

a)   a pentagon have

b)   How many faces does a tetrahedron have ?

23. Draw rectangle sketch of a

i)   triangular Pyramid   ii)   a triangular Prism