

## SECOND INTRA SCHOOL MATHEMATICS OLYMPIAD

### ANSWER KEY

#### CLASS VI

2. no. be x

$$x*10=600$$

$$x=60$$

$$\text{correct answer}=60/10=6$$

3. 22

$$4. \text{gina}=x$$

$$\text{Nell}=x-3$$

ATQ

$$x+x-3=45$$

$$2x=48$$

$$X=24$$

5. 10 min=4problems

$$1\text{min}=4/10 \text{ prob}$$

$$95 \text{ min}=4/10*95=38 \text{ problems}$$

6. c

7. d

8. after 10 yrs combined age=100

$$\text{Present age}=100-10-10-10=70$$

9. sequence is 1,3,5,7,9,11,13

Thus 7<sup>th</sup> row has 13 dots

10. gap of 6

Thus 7,13,19,25,31,37

11. in middle row 3 ,5 &7

3 is not on right as well as left

Thus 3 in middle

$$12. 3/15=1/5$$

13. 5:39 min

14.  $2010 - x < 973$

$2010 - 973 < x$

$1037 < x$

Thus 1037 is smallest no.

15.  $180^\circ - 15^\circ - 15^\circ = 150^\circ$

16. In 1 week rita eats = 2 pizza

In 1 day she eats =  $\frac{2}{7}$  pizzas

In jan+feb+mar ( $31+29+31=91$  dys) =  $\frac{2}{7} * 91 = 26$  pizzas

17. nos. be  $x, x+1, x+2$

ATQ

$x + x + 1 + x + 2 = 60$

$3x = 57 \quad x = 19$

Thus nos. are 19, 20, 21

Product =  $19 * 20 * 21 = 7980$

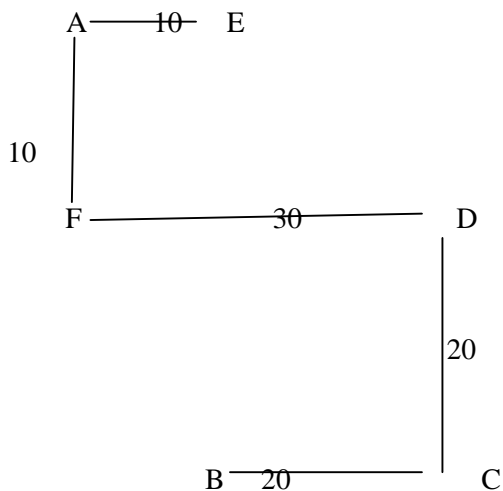
18.  $41.000 - 0.725 = 40.275$  kg

19. Empty bucket weight =  $x$                        $21 - x$  kg weight of water

ATQ

$x + \frac{1}{2}(21 - x) = 12$                       solving gives  $x = 3$  kg

20.



Distance between E & A =  $10 + 20 = 30$  km

Answers:

1. D

2. E

3. C

4. A

5. B

6. C

7. D

8. A

9. B

10. E

11. B

12. C

13. D

14. A

15. E

16. 26

17. 7980

18. 40.275

19. 3 kg

**20. 30**