In the number **567.8** the digit with the greatest value is _____.

(A) 5

(B) 6

(C) 7

(D) 8

2) The number **nine thousand and nine** written in figures is _____.

(A) 9009

(B) 9090

(C) 9099

(D) 9900

3) The largest three digit number that can be formed using all the digits **7, 9 and** 4 is ____.

(A) 479

(B) 497

(C) 749

(D) 974

4) James eats $\frac{1}{10}$ of a cake, Jack eats $\frac{1}{2}$ and Mary eats $\frac{1}{4}$. The uneaten fraction is _____.

(A) $\frac{3}{20}$

(B) $\frac{3}{10}$

(C) $\frac{7}{10}$

(D) $\frac{17}{10}$

5) An item sells for \$300. It originally cost \$200. The profit as a percentage of the original cost is _____.

(A) $33\frac{1}{3}\%$

(B) 50 %

(C) $66\frac{2}{3}\%$

(D) 75 %

6) A television set can be bought for \$860 cash **or** on hire purchase with \$100 down payment and 12 monthly instalments of \$70 each. The amount that may be saved by buying the television for cash is _____.

(A) \$80

(B) \$100

(C) \$940

(D) \$960

7) $5(x - y) - 5(y + x) =$

(A) $-10y$

(B) $6x - 6y$

(C) $10x - 10y$

(D) $10y$

8) If $-12 - 4(-2x) = 4$, then $x =$

(A) -10

(B) -5

(C) -2

(D) 2

9) When factorised completely the expression $ax - ay + bx - by$ can be written as _____.

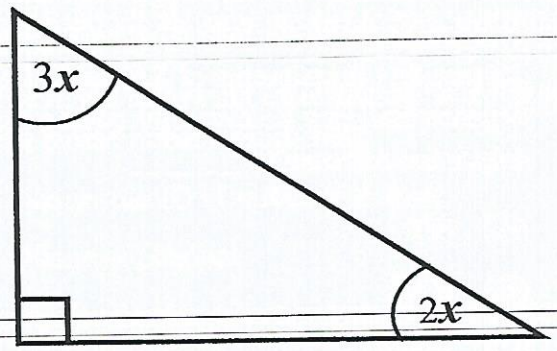
(A) $(a-b)(x-y)$

(B) $(a+b)(x-y)$

(C) $(a-x)(b-y)$

(D) $(a+y)(b-x)$

10)



In this triangle, the value of x is _____.

(A) $18°$

(B) $36°$

(C) $90°$

(D) $180°$

11) $a^2 - 9b^2 =$

(A) $(a-3b)(a-3b)$

(B) $(a-3b)(a+3b)$

(C) $(a-9b)(a+9b)$

(D) $(a-9b)(a-b)$

12) A boy receives three times as much allowance as his sister. Together they receive \$240. The girl's share is _____.

(A) \$20

(B) \$40

(C) \$60

(D) \$240

13) The scores obtained in a spelling competition are **5, 8, 9, 6, 9, 3, 5, 7, 9, 9 and 8**. The modal score is _____.

(A) 4

(B) 7

(C) 8

(D) 9

14) The difference between the highest and lowest values in a distribution is called the _____.

(A) mean

(B) median

(C) mode

(D) range

5)

Day of the Week	Mon.	Tue.	Wed.	Thu.	Fri.
Number of Lunches	15	20	10	18	17

The table shows the number of lunches given to students in a class in a certain week. The mean number of lunches given per day is _____.

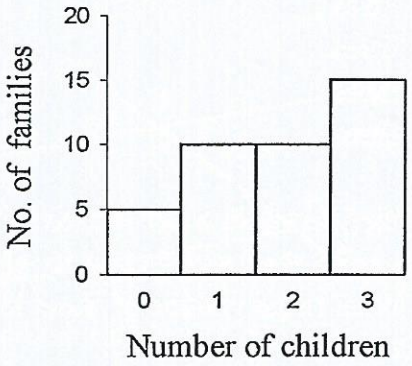
(A) 15

(B) 16

(C) 17

(D) 20

16) A census was conducted on the number of children per family in an apartment building in Trinidad. The data collected is shown in the histogram below.



The total number of children is _____.

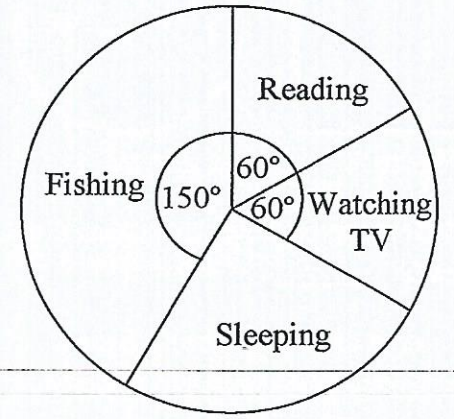
(A) 6

(B) 30

(C) 40

(D) 75

17) The diagram below shows a pie chart representing how Joan spent her Easter vacation.



What percentage of Joan's Easter vacation was spent sleeping?

(A) 25 %

(B) 75 %

(C) 90 %

(D) 270 %

18) A class of 40 students sat a test, and 32 were successful. The probability of choosing a student at random who was **not** successful is _____.

(A) $\frac{1}{5}$

(B) $\frac{1}{4}$

(C) $\frac{3}{4}$

(D) $\frac{4}{5}$

19) From 01:30 to 01:45, the minute hand of a clock rotates through an angle of ____.

(A) $7\frac{1}{2}°$

(B) $15°$

(C) $25°$

(D) $90°$

20) Square Circle

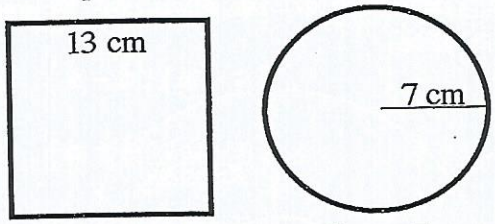
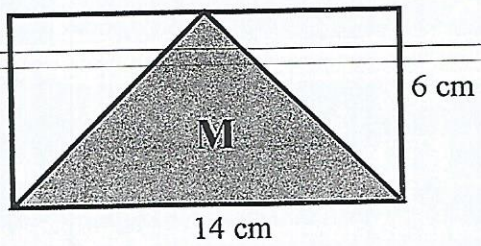


Figure A Figure B

The difference between the areas of the two figures is _____.

(A) area of A is larger by 6 cm^2
(B) area of A is larger by 8 cm^2
(C) areas of A and B are the same
(D) area of A is larger by 15 cm^2

21)



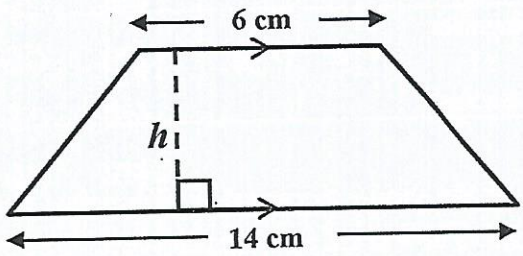
The triangle **M** is drawn in the rectangle as shown. What is the area of triangle **M**?

(A) 20 cm^2
(B) 28 cm^2
(C) 42 cm^2
(D) 84 cm^2

22) A cubical tank of side 2 m is filled with water which is poured into another cubical tank of side 8 m. The number of times this must be done to fill the larger tank is _____.

(A) 4
(B) 8
(C) 16
(D) 64

23) The diagram illustrates a trapezium of area 80 cm^2 with parallel sides of lengths 6 cm and 14 cm.



The height, h, is _____.

(A) 4 cm
(B) 8 cm
(C) 10 cm
(D) 20 cm

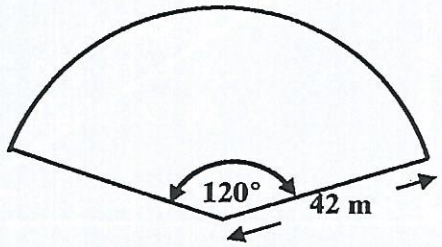
24) 1 litre of paint covers an area of 48 m^2. How much paint will be required to cover a rectangular wall 18 m by 8 m?

(A) 2 litres
(B) 3 litres
(C) 5 litres
(D) 6 litres

25) A 1-litre jug filled with water is used to fill two empty cups, each with a capacity of 420 cm^3. What is the volume of water left in the jug?

(A) 160 cm^3
(B) 580 cm^3
(C) 840 cm^3
(D) 1420 cm^3

26) The diagram below shows a flowerbed in the shape of a sector.



What is the **perimeter** of the flower bed with radius 42 m and sector angle 120°?

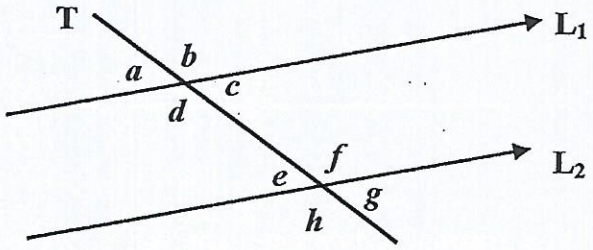
(A) 44 m

(B) 88 m

(C) 130 m

(D) 172 m

27) The diagram below shows two parallel lines, L_1 and L_2, being intersected by the straight line T.



Angles *b* and *f* are called _____.

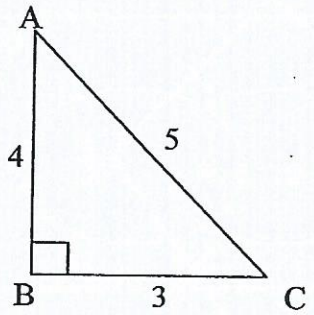
(A) alternate angles

(B) co-interior angles

(C) corresponding angles

(D) vertically opposite angles

28)



In this triangle, **sin C** =

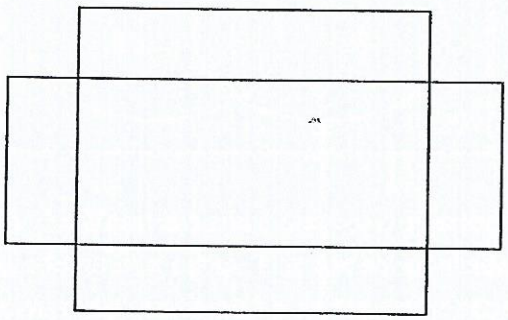
(A) $\frac{3}{5}$

(B) $\frac{3}{4}$

(C) $\frac{4}{5}$

(D) $\frac{5}{4}$

29)



The diagram above shows the net of _____.

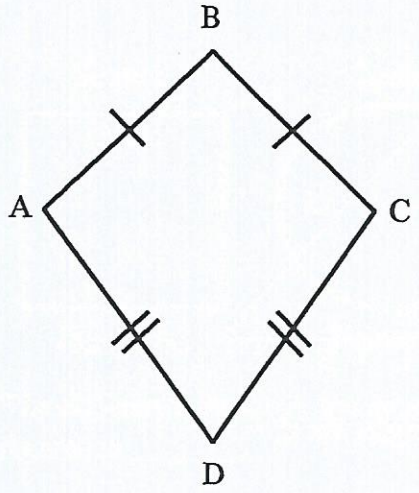
(A) a cube

(B) an open box

(C) an open cylinder

(D) a pyramid

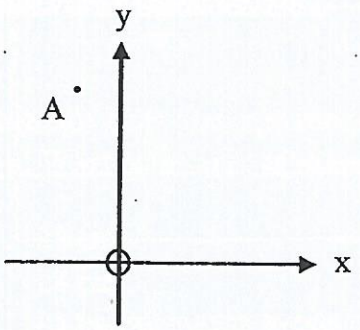
30)



The quadrilateral **ABCD** has one axis of symmetry. The quadrilateral is a _____.

(A) kite
(B) parallelogram
(C) rhombus
(D) trapezium

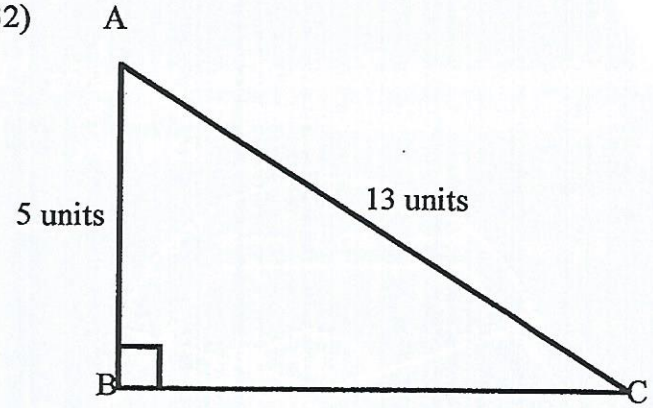
31)



The point **A**, shown in the diagram, could be _____.

(A) $(-1, -5)$
(B) $(-1, 5)$
(C) $(1, -5)$
(D) $(1, 5)$

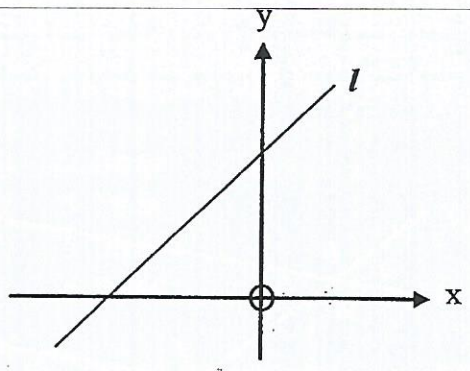
32)



Calculate the distance **BC**.

(A) 8 units
(B) 10 units
(C) 12 units
(D) 18 units

33)



The diagram shows a straight line, l. Which of the following points will lie on the line l?

(A) $(-3, 2)$
(B) $(0, -3)$
(C) $(4, -2)$
(D) $(5, 0)$

4) The set of multiples of **5** is _____.

(A) {5, 25, 125}
(B) {1, 2, 3, 4, 5}
(C) {-5, -4, … , 4, 5}
(D) {5, 10, 15, 20, …}

35) The set of prime factors of **6** is _____.

(A) {1, 3}
(B) {2, 3}
(C) {2, 3, 6}
(D) {1, 2, 3, 6}

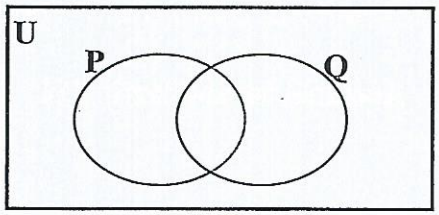
36) If **A** = {odd numbers from 1 to 10} and **B** = {prime numbers from 1 to 10}, then **A** ∩ **B** is _____.

(A) {3, 5, 7}
(B) {2, 3, 5, 7}
(C) {1, 2, 3, 5, 7}
(D) {1, 2, 3, 5, 7, 9}

37) If **X** = {b, d, f} and Y = {b, c, d, e, f} then _____.

(A) X = Y
(B) X ⊂ Y
(C) Y ⊂ X
(D) X ∩ Y = Ø

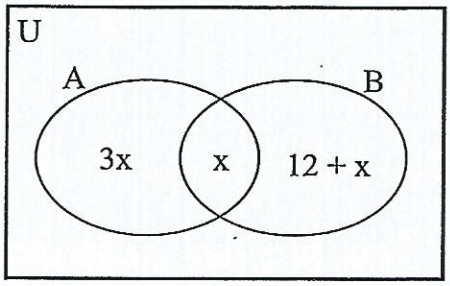
38)



In the diagram above, the **unshaded** region represents _____.

(A) P ∪ Q
(B) (P ∪ Q)'
(C) P ∩ Q
(D) (P ∩ Q)'

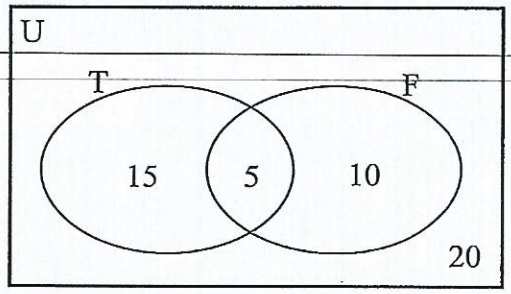
39)



In this Venn diagram, **n(A) = n(B)**.
The value of x is _____.

(A) 3
(B) 4
(C) 6
(D) 12

40)



In the Venn diagram above, **U** represents students in a class. **T** is the set of students who play tennis and **F** is the set of students who play football.

The number of students who play only one game is _____.

(A) 10
(B) 15
(C) 20
(D) 25

END OF TEST