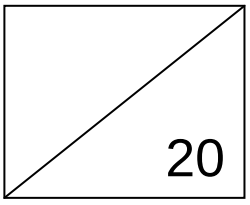
Name: _____ Class: _____ Date: _____

COVERS TOPICS TAUGHT IN GRADE 7



Section A

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. Choose the correct answer and write its number in the brackets provided. (20 marks)

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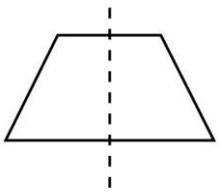
1. In $0.906 = 0.9 + \square$, the missing value is _____.

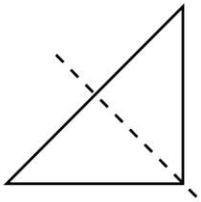
   (1) 0.006
   (2) 0.06
   (3) 0.6
   (4) 6 ( )

2. In which of the following symmetric figures is the line of symmetry incorrectly drawn?

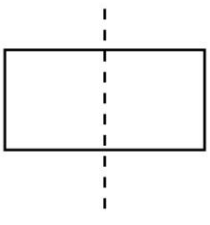
   (1)



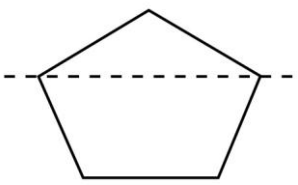
   (2)



   (3)

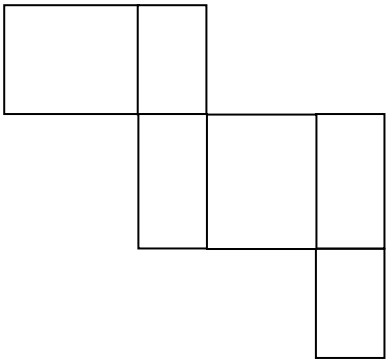


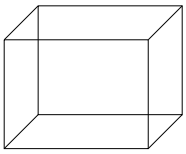
   (4)

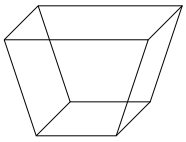


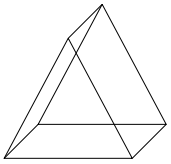
   ( )

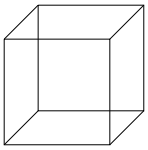
3. Which of the following solids can be obtained by folding the net below?



(1) 

(2) 

(3) 

(4) 

( )

4. Which of the following fractions has the greatest value?

(1) $\frac{3}{7}$

(2) $\frac{2}{3}$

(3) $\frac{5}{6}$

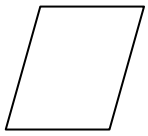
(4) $\frac{7}{12}$

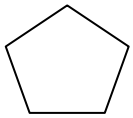
( )

5. Which of the following figures has at least a pair of parallel lines?

(1) 

(2) 

(3) 

(4)  ( )

6. The length of a rectangle is thrice its breadth. If the length is 12 cm, what is the breadth of the rectangle?

(1) 3 cm
(2) 4 cm
(3) 24 cm
(4) 36 cm ( )

7. What is the circumference of a circle with a diameter of 6 cm?

(1) 3π cm
(2) 6π cm
(3) 12π cm
(4) 36π cm ( )

8. A shopkeeper buys a toaster for \$m. Then she sells the toaster and earns \$9. What is the selling price of the toaster?

(1) $\$(9m)$
(2) $\$(\frac{m}{9})$
(3) $\$(m-9)$
(4) $\$(m+9)$ ( )

9. Mr Robinson drove at an average speed of 88 km/h. What was the distance covered if Mr Robinson drove for 3 hours?

(1) 44 km
(2) 85 km
(3) 176 km
(4) 264 km ( )

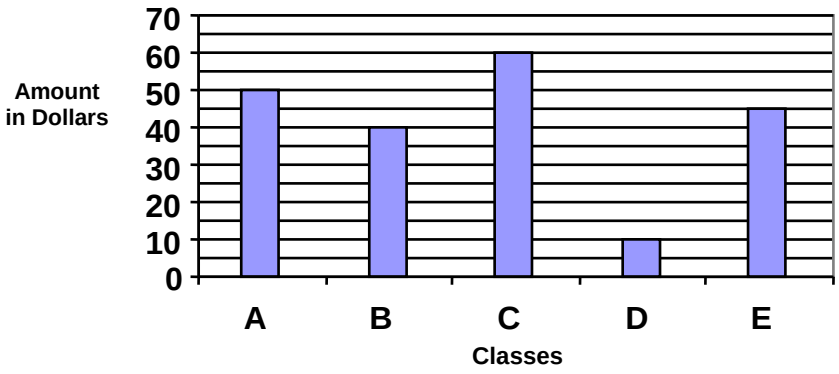
10. In a class of 40 pupils, 24 of them walk to school. What percentage of the class walk to school?

(1) 16%
(2) 32%
(3) 40%
(4) 60% ( )

11. Find the value of $12+24\div12-3$.

(1) 0
(2) 9
(3) 11
(4) 15 ( )

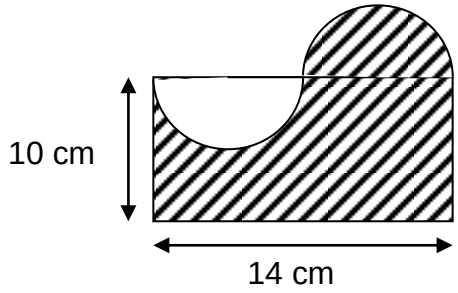
12. The graph shows the amount of money donated by 5 classes in a particular school to an orphanage.



Which class donated $\frac{3}{4}$ as much money as Class C?

(1) Class A
(2) Class B
(3) Class D
(4) Class E ( )

13. The figure shows two semicircles and a rectangle. What is the perimeter of the shaded part? (Take $\pi = \frac{22}{7}$)



(1) 45 cm
(2) 56 cm
(3) 78 cm
(4) 188 cm ( )

14. A car and a bicycle start off from Town X at 10 a.m. together. If the car is 9 km ahead of the bicycle at 10.10 a.m., what is the difference in their speed?

(1) 30 km/h
(2) 48 km/h
(3) 54 km/h
(4) 69 km/h ( )

15. The ratio of the number of girls to the number of boys in a class is $5:2$. There are 15 more girls than boys. How many pupils are there in the class?

(1) 21
(2) 28
(3) 30
(4) 35 ( )

Name: _____ Class: _____ Date: _____

Section B

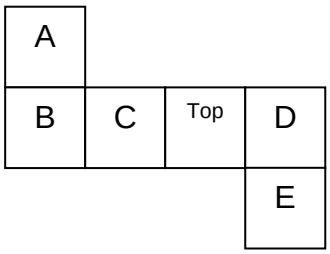
20

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions that require units, give your answers in the units stated. (10 marks)

16. Round off 614.589 to the nearest tenth.

Ans : _____

17. In the figure, which face is the base of the cube?



Ans : _____

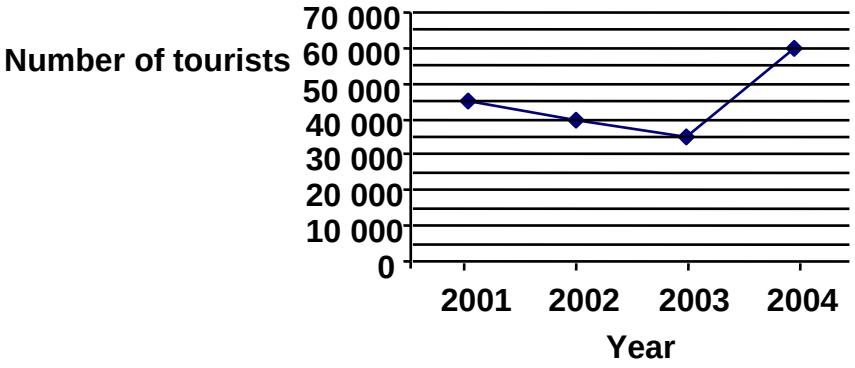
18. Express $\frac{2}{25}$ as a percentage.

Ans : _____%

The line graph below shows the number of tourists who visited a resort over a 4-year

period. Study the graph carefully and answer questions 19 and 20.

19. Find the drop in number of tourists from year 2002 to 2003.

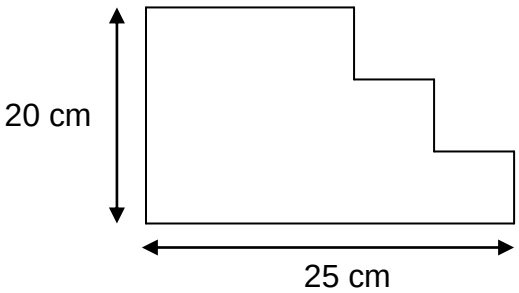


Ans : _____

20. What was the average number of tourists who visited the resort in the 4 years?

Ans : _____

21. Find the perimeter of the figure below. It is not drawn to scale. (All lines meet at right angles.)



Ans : _____cm

22. 15 similar tanks can hold 195 litres of water. How many such tanks are needed to hold 432 litres of water?

Ans : _____

23. Alice bought 2 files at R5 each and 1 pen at R3. She received R5 change. How much money did she have at first?

Ans : R _____

24. What is the product of $3\frac{1}{4}$ and 5?

Ans : _____

25. The parking charges at a car park are as follows:

First 1 hour	R3.00
Every subsequent 30 min or part thereof	R0.95

Find the cost of parking a car for 4 hours and 20 minutes in the car park.

Ans :

R_____

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.
For questions that require units, give your answers in the units stated.

(10 marks)

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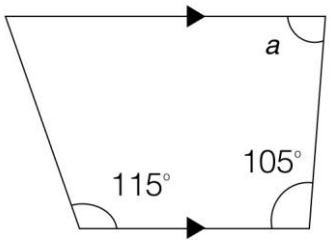
26. The figure below is not drawn to scale. Find the angle marked *a*.



Ans : _____°

27. The diameter of a circle is 14 cm. Find the area of the circle.
(Take $\pi = \frac{22}{7}$)

Ans : _____ cm^2

28. Charmaine spent R520 on some wallets. She paid R17 for each black wallet and R9 for each pink wallet. If she bought an equal number of black and pink wallets, how many black wallets did she buy?

Ans : _____

29. Steven gets R25 for his pocket money every week. He spends 80% of it and saves the rest. How much does he save in 8 weeks' time?

Ans :
R_____

30. The average of 5 numbers is 34. When another number is added to them, the average of the 6 numbers becomes 40. What is the 6th number?

Ans : _____

Name: _____ Class: _____ Date: _____

Section C

60

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.
For questions that require units, give your answers in the units stated.

(10 marks)

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1. Mr Parker had 15n pairs of shoes. He put them equally into 7 boxes. How many pairs of shoes did he put into each box?

Ans : _____

2. Find the value of $\frac{3n}{5} - 5$ when $n = 25$.

Ans : _____

3. Ray took 6 hours to complete a journey at an average speed of 50 km/h. If he increased his average speed to 60 km/h, how many hours would he take to complete the journey?

Ans : _____h

4. Containers A, B and C store some paint. $\frac{1}{4}$ of the total amount of paint is stored in Container A. Half as much as that in A is stored in B. Express the ratio of the amount of paint in Container A to that of Container B to that of Container C.

Ans : _____

5. Bag A has 40% more beads than Bag B. If Tim transfers 48 beads from Bag A to Bag B, there will be an equal number of beads in both bags. How many beads are there altogether?

Ans : _____

For questions 6 to 18, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

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6. Jimmy's monthly salary was R1400. He worked for the first half of the year and took three months' unpaid leave. Thereafter, he returned back to work. What was his average salary for the whole year?

Ans : _____[4]

---

7. Mr Johnson takes $\frac{1}{3}$ h to drive to the mall at an average speed of 72 km/h. How long will he take to drive the same distance if he travels at an average speed of 60 km/h?

Ans : _____[3]

8. Mrs Davis had 24.1 m of ribbon. She gave 2.4 m to each of her 2 friends. She kept 78 cm of it and used the rest to tie some parcels. If 0.55 m of ribbon was needed to tie each parcel, what was the maximum number of parcels she could tie?

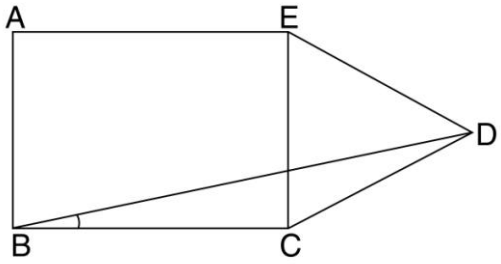
Ans : _____[4]

---

9. The base of a rectangular fish tank measures 31 cm by 10 cm. The tank contains 10 litres of water. Joe pours another 2400 cm^3 of water into the tank. Find the height of the water level.

Ans : _____[4]

10. The figure below is not drawn to scale. It consists of a rectangle ABCE and an equilateral triangle ECD. If ∠CDB is 5° more than ∠CBD, find ∠CBD.



Ans : _____[4]

---

11. A computer costs R1406. Pam spends $\frac{1}{4}$ of her monthly allowance of R240 and saves 50% of the remainder of the monthly allowance. How many months will she take in order to save enough to buy the computer?

Ans : _____[4]

12. The sum of number A and number B is 141.75. If $\frac{3}{8}$ of number A is equal to $\frac{1}{9}$ of the number B, find the difference between the two numbers A and B.

Ans : _____[5]

---

13. On a certain day, a florist managed to sell 3600 roses. She sold the roses in bouquets of 9 and 12. If she sold 1800 of the roses in bouquets of 12 and the remaining in bouquets of 9, find the total number of bouquets the florist sold altogether.

Ans : _____[3]

14. Pam was asked to number the pages of a thick book. In the end, she noticed that she had used 957 digits to number the pages of the whole book. How many pages were there in the book?

Ans : _____[3]

---

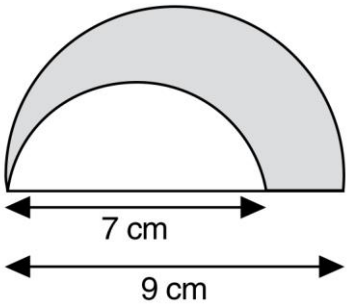
15. The ratio of the number of red beans to that of green beans is $4:5$.
The ratio of the number of green beans to that of black beans is $3:5$.
There are 50 black beans.

(a) How many red beans are there?
(b) How many beans are there altogether?

Ans : (a) _____[3]

(b) _____[2]

16. The figure shows two semicircles. Find the area of shaded part of the figure. (Take $\pi = \frac{22}{7}$)

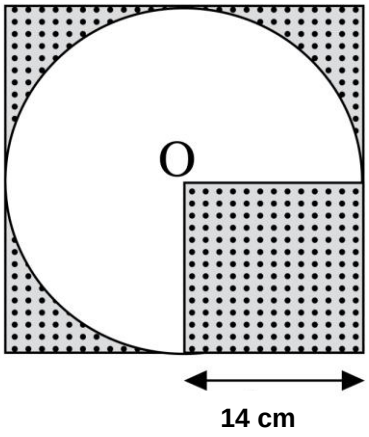


Ans : _____[3]

17. Dan, Eric and Felix have 1120 stamps. The number of stamps they have are in the proportion $3:5:6$ respectively. If Eric gives 10% of his stamps and Felix gives $\frac{1}{6}$ of his stamps to Dan, how many stamps does Dan have now?

Ans : _____[3]

18. The figure below, not drawn to scale, is a square with 3 quadrants of a circle in it. O is the centre of the circle. Find the perimeter of the shaded region.
(Take $\pi = \frac{22}{7}$)



Ans : _____[5]

- End of Test -