Primary Five
Mathematics
Semestral Assessment One

Section A
Questions 1 to 5 carry one mark each. Questions 6 to 15 carry twos marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4).   (Total: 25 marks)

1.   What is 10 000 less than half a million?

      (1) 400 900
      (2) 499 000
      (3) 490 000
      (4) 409 000

2.   In which one of the following is the digit 2 in the hundred thousands place?

      (1) 263 405
      (2) 853 210
      (3) 305 128
      (4) 485 720

3.   If Rachel spends $3 a day, her money will last her for 10 days. How many days will her money last if she spends $1 less each day?

      (1) 6 days
      (2) 15 days
      (3) 20 days
      (4) 18 days

4. $8\frac{7}{12} + \boxed{} = 10\frac{2}{3}$, what is the missing number in the box?

      (1) $2\frac{1}{12}$
      (2) $2\frac{2}{3}$
      (3) $3\frac{5}{12}$
      (4) $8\frac{7}{12}$

5. A television is sold for $2544 if a customer pays cash for it. However he can also pay for the television by monthly installments of $120 for two years. How much can Mr Bond save by paying cash?

    (1) $246
    (2) $336
    (3) $1520
    (4) $2340

6. James spent $2^2/_3$h at a movie theatre. How many minutes was that?
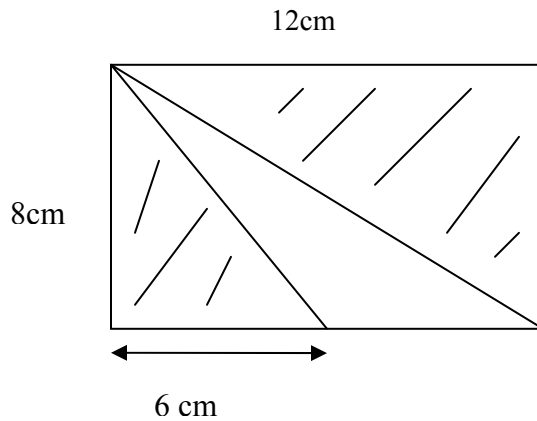
    (1) 120
    (2) 110
    (3) 126
    (4) 140

7. Mrs Jacobs bought $^4/_6$kg of flour to bake 3 pizzas. If she used the same amount of flour for each pizza, how much flour was needed to bake a pizza?

    (1) $^1/_2$kg
    (2) $^3/_4$kg
    (3) $^7/_8$kg
    (4) $^2/_9$kg

8. Nemo ate $^3/_4$ of a cake. He gave away $^1/_3$ of the remainder to Marlin. What fraction of the pizza did Marlin receive?

    (1) $^1/_{12}$
    (2) $^1/_8$
    (3) $^1/_4$
    (4) $^2/_3$

9.

12cm

8cm

6 cm

In the above figure, find the shaded area.

(1) 26 cm^2
(2) 34 cm^2
(3) 50 cm^2
(4) 72 cm^2

10. The ratio of the number of male workers to female workers in a toy factory is 20 : 3. There are 45 female workers. How many male workers are there?

(1) 70
(2) 150
(3) 120
(4) 300

11. 20 sweets were shared between Lucy and Cameron. Lucy had 4 sweets more than Cameron. What is the ratio of the number of Lucy's sweets to the number of Cameron's sweets?

(1) 2 : 3
(2) 1 : 5
(3) 3 : 2
(4) 1 : 3
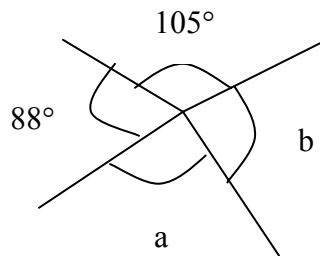
12.
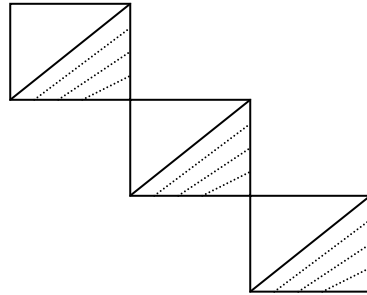
The total area of the above figure, which consists of 3 identical squares, is 192cm^2. What is the area of the shaded parts?

    (1) 168 cm^2
    (2) 66 cm^2
    (3) 96 cm^2
    (4) 34 cm^2

13.

What is the value of $\angle a + \angle b$?

    (1) 153°
    (2) 85°
    (3) 90°
    (4) 167°

14. Mr Tay left some money to his wife, daughter and 2 sons to be shared in the ratio 3 : 2 : 1 respectively. Each of his sons received $3000. How much was the total sum of money?

    (1) $8000
    (2) $6000
    (3) $17000
    (4) $36000

15.
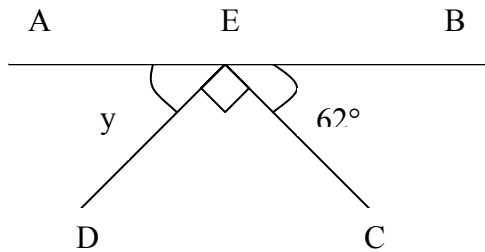
In the diagram above, AB, DE and CE are straight lines. ∠DEC is a right angle. What is the value of ∠y?

    (1) 28°
    (2) 150°
    (3) 268°
    (4) 300°

Section B
Questions 16 to 35 carry 1 mark each. Write your answers in the spaces provided. Give your answers in the units stated.   (Total: 20 marks)

16.   A number when divided by 10000 has a quotient of 10. What is the number?

Answer: _____

17.   The total cost of a cupboard set and a sofa set is $10500. If the sofa set costs $6799, what is the cost of the cupboard set when rounded off to the nearest hundred dollars?

Answer: $ _____

18. $\boxed{}$ x 1600 = 4800 000. What is the missing number in the box?

Answer: _____

19. 34 x 6794 = 4 x 17 x 43 x _____

What is the missing number in the blank?

Answer: _____

20. The capacity of a thermal flask is 330 *ml*. A bucket can hold 18 times as much water as the flask. What is the capacity of the bucket?
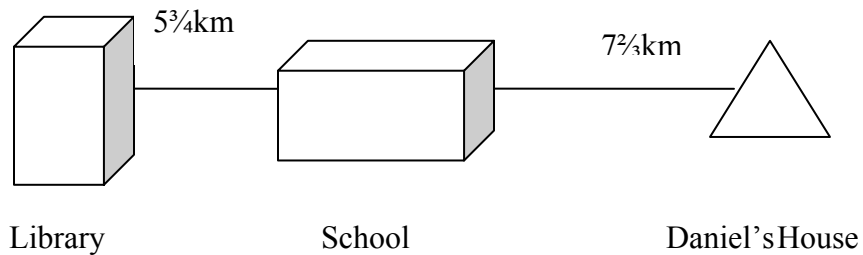
Answer: _____ *l* _____*ml*

7

21. What fraction of 2 *l* is 75 *ml?*

Answer: _____

22. Evelyn spent $^1/_6$ of her pocket money on lunch, $^1/_{12}$ of it on transport and $^1/_9$ of it on stationery. What fraction of her money has she left?
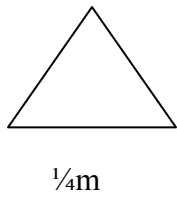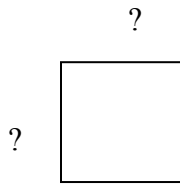
Answer: _____

23. Daniel's house is _____ km further from the school than the library is.

5¾km		7⅔km
Library	School	Daniel's House

Answer: _____ km

8

24. The perimeter of a triangle is the same as that of a square. If the length of each side of the triangle is ¼ m, what is the length of the square?
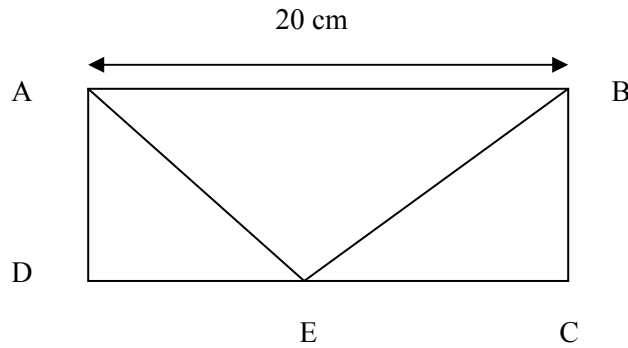
?

? ☐

△

¼m

Answer: _____ m

25. $^5/_{12}$ of a population are teachers. $^3/_5$ of the teachers are females. What fraction of the population is male teachers?
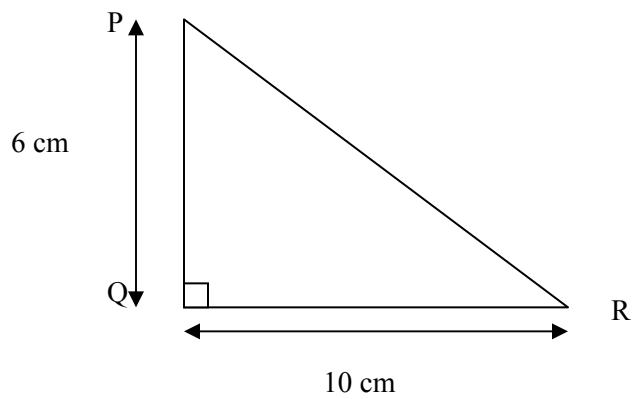
Answer: _____

26. The area of rectangle ABCD is 80 cm^2. Find the area of triangle ABE.

20 cm

A ————————————————— B

D

E   C

Answer: _____ cm^2

27. In the diagram below, PQR is a right-angled triangle. What is the area of the triangle?

P

6 cm

Q

10 cm

R

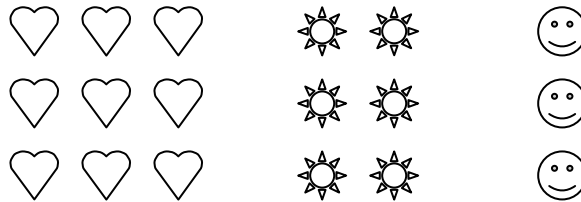Answer: _____ cm^2

28. In order to make orange juice, Brenda mixes orange syrup with water in the ratio 3 : 8. If she uses 720 *ml* of water, how much orange syrup should she add?
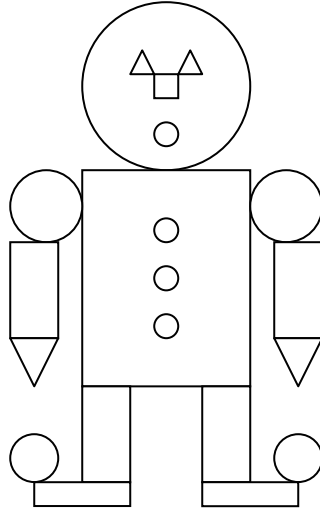
Answer: _____ *ml*

29. The diagram below shows different shapes of chocolates. What is the ratio of the number of hearts to the number of suns to the number of smiley faces? Leave your answer in its simplest form.
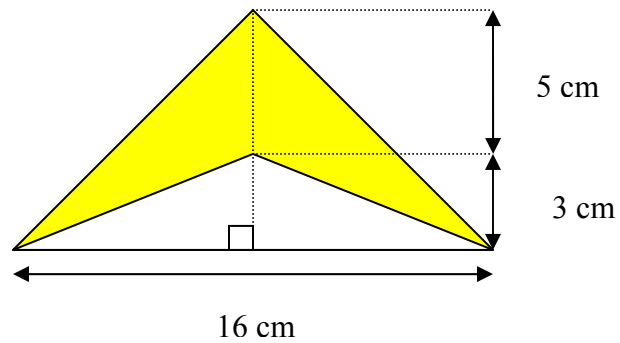
♡ ♡ ♡   ☀ ☀   ☺
♡ ♡ ♡   ☀ ☀   ☺
♡ ♡ ♡   ☀ ☀   ☺

Answer: _____

30. The following picture of a robot is made up of circles, triangles and rectangles. What is the ratio of the number of circles to the number of triangles?

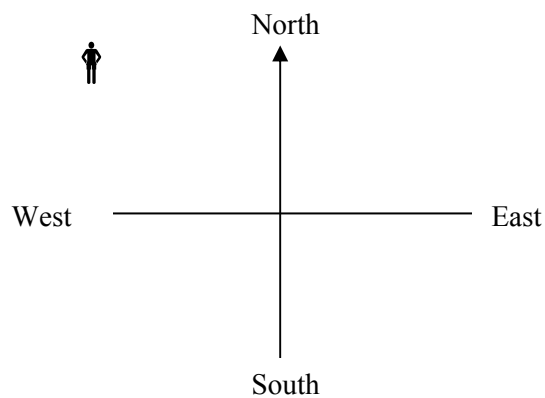Answer: _____

31. Calculate the shaded area in the figure below.

5 cm

3 cm

16 cm

Answer: _____cm

32. The ratio of the number of red marbles to the number of blue marbles is 3 : 4, while the ratio of the number of blue marbles to the number of yellow marbles is 8 : 5. If there are 30 red marbles, how many yellow marbles are there?
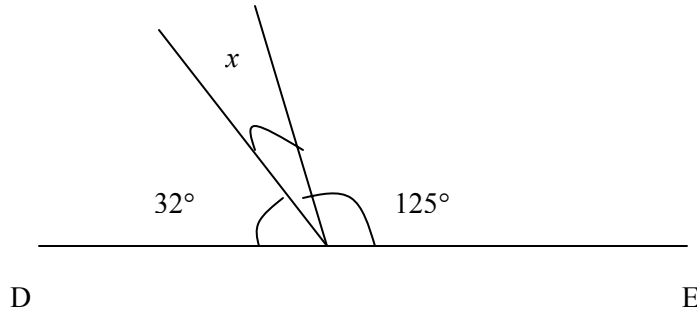
Answer: _____

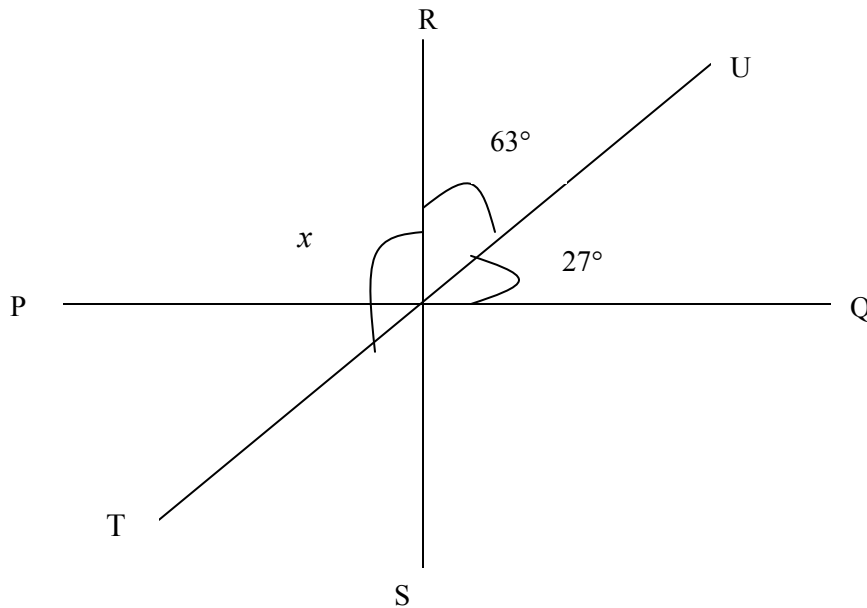33. After rotating 136° clockwise, Ali was facing the east. In which direction was Ali facing before he turned?

Answer: _____

34. DE is a straight line. Find ∠*x*.

Answer: _____°

35. PQ, RS and TU are straight lines. Find ∠*x*.

Answer: _____°

Section C

For questions 36 to 50, show your workings clearly in the space provided below each question and write your answers in the space provided.

The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(Total: 55 marks)

36.   Brad cut a piece of ribbon $^4/_5$ m long into 8 equal pieces. What is the length of each piece of ribbon? (Give your answer in metres)

Answer: _____ [2]

37.   Mrs Sparks baked 878 fruit tarts and packed them into boxes of 36. If she had 50 tarts left over, how many boxes of tarts did she pack?

Answer: _____ [2]

38. Six years ago, Ruth was 5 times as old as his nephew. Their total age now is 60 years old. What is Ruth's current age?

Answer: _____ [4]

39. Romeo and Juliet share 499 candies. Romeo gets 71 more candies than Juliet. How many candies does Juliet receive?

Answer: _____ [3]

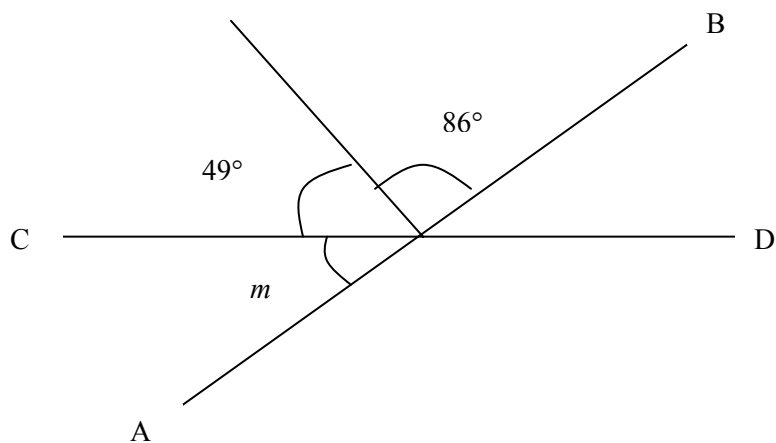40. A car is facing west. It rotates 225° anticlockwise. Which direction will the car end up facing?

Answer: _____ [2]

41. In a guitar club, the number of boys to the number of girls is 5 : 2. If there are 180 girls, how many *more* boys than girls are there?
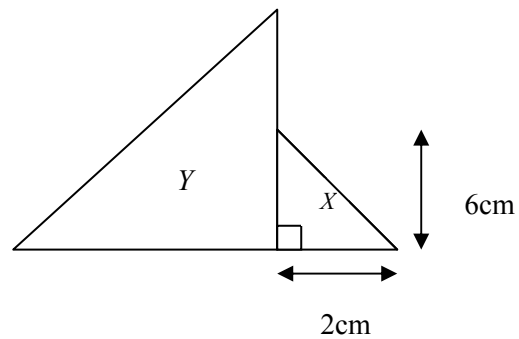
Answer: _____ [3]

42.

In the figure above, AB and CD are straight lines. Find ∠m.

Answer: _____° [3]

43. The area of Triangle *X* is ¼ that of Triangle *Y*. Find the total area of both triangles.
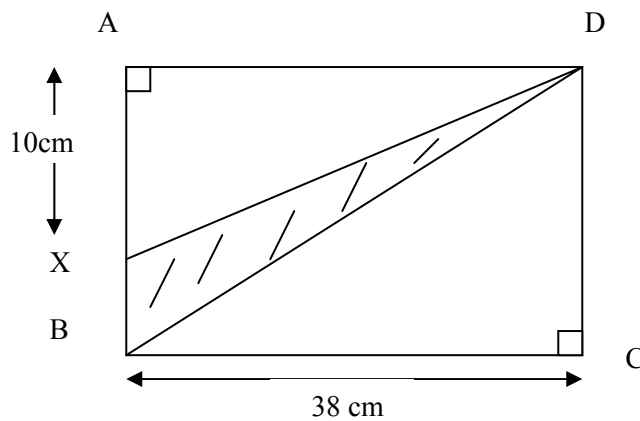

Answer: _____ [4]

44. Catherine had 1236 pokemon cards. Sumei had 258 fewer cards. They put together all of their pokemon cards and packed them into bags of 20 cards each. How many such bags did they pack and how many pokemon cards were left over?

Answer: _____ [4]

45. Sally donated $\frac{1}{6}$ of her money to charity and spent the rest. If the amount she spent was $1120 more than what she donated, how much money did she have initially?

Answer: _____ [4]

46. The perimeter of a rectangle ABCD is 112cm. The ratio of the length of AX to the length of AB is 5 : 9. Find the area of the shaded triangle XDB.

Answer: _____ [4]

47. The amount of Tom's savings and the amount of Jerry's savings are in the ratio 5 : 2. If Tom gives $150 to Jerry, the new ratio will be 10 : 11. Calculate their total savings.

Answer: _____ [5]

48. A florist had $\frac{3}{5}$ of her flowers left after selling 280 of them at $1 each. She sold the remainder at 50 cents each. How much money did she collect from the sale of all her flowers?

Answer: _____ [5]

49.   Tom had 42 erasers, Dick had 36 erasers and Harry had 12 erasers. In a fair game, Tom lost $\frac{2}{7}$ of his erasers to Harry and Dick lost $\frac{1}{4}$ of his erasers to Harry. What was the ratio of the number of Tom's erasers to that of Dick's to that of Harry's after that? (Leave your answer in its simplest form.)

Answer: _____ [5]

50.   340 lollipops were shared among some students. $\frac{1}{3}$ of the students received 2 lollipops each, half of them received 3 lollipops each, and the rest received 4 lollipops each. How many students were there?

Answer: _____ [5]

End of Paper!