PSLE STANDARD MATHEMATICS

PAPER 1

(45 marks)

Booklet A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Write your answer (1, 2, 3 or 4) in the brackets provided. All diagrams in this paper are not drawn to scale unless stated otherwise.
The use of calculators is <u>NOT</u> allowed.

1. Which of the following is the same as 6070 cm?

   (1) 6 m 7 m
   (2) 6 m 70 cm
   (3) 60 m 7 cm
   (4) 60 m 70 cm

( )

2. Which of the following fractions is equal to $5\frac{6}{7}$?

   (1) $\frac{30}{7}$

   (2) $\frac{35}{7}$

   (3) $\frac{37}{7}$

   (4) $\frac{41}{7}$

( )

3. What is the likely length of a tour bus?

(1) 1.2 cm
(2) 12 m
(3) 120 m
(4) 1.2 km

( )

4. Round of 2.456 to 2 decimal places.

(1) 2.40
(2) 2.45
(3) 2.46
(4) 2.50

( )

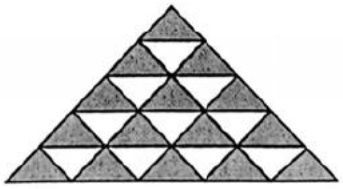
5. Which of the following decimals is the smallest?

(1) 1.110
(2) 1.200
(3) 1.003
(4) 1.040

( )

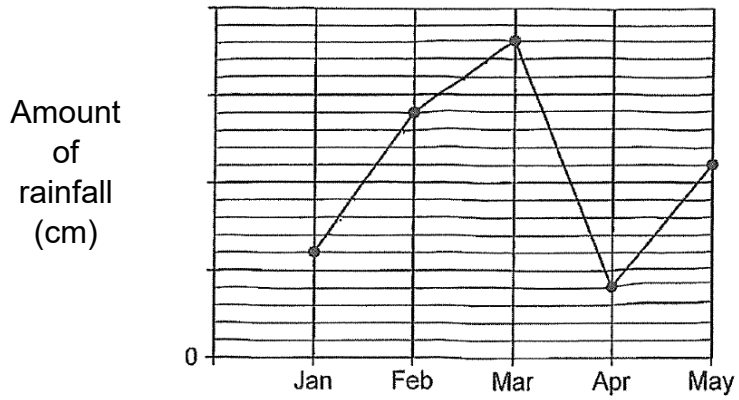
6. The figure below is made up of identical triangles. What percentage of the figure is shaded?

(1) 10%
(2) 15%
(3) 40%
(4) 60%



( )

7. The line graph shows the amount of rainfall over 5 months. The amount of rainfall is not shown on the scale.

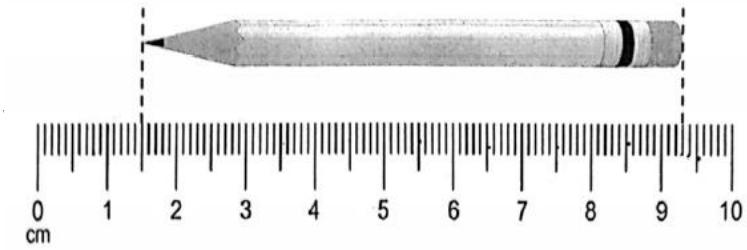


From which month to the next was the increase in rainfall the greatest?

(1) From Jan to Feb
(2) From Feb to Mar
(3) From Mar to Apr
(4) From Apr to May

( )

8. The diagram below (not drawn to scale) shows the length of a pencil.



What is the length of the pencil?

(1) 1.5 cm
(2) 7.8 cm
(3) 8.2 cm
(4) 9.3 cm

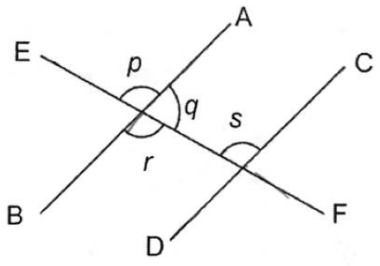
( )

9. William and Xavier started competing in a marathon at 5.20 a.m. William was 20 minutes slower than Xavier who completed the marathon at 9.05 a.m. How long did William take to complete the marathon?

(1) 3 h 25 min
(2) 4 h 5 min
(3) 3 h 55 min
(4) 4 h 35 min

( )

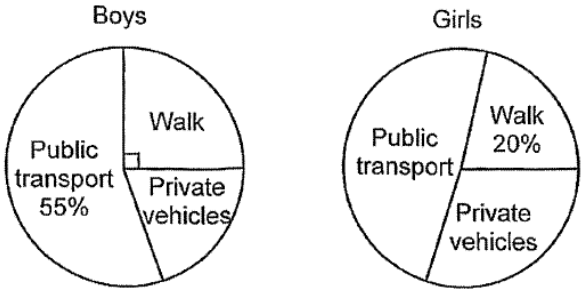
10. In the diagram below, AB, CD and EF are straight lines. AB is parallel to CD. Which of the following is **false**?



(1) $\angle p + \angle q = 180°$
(2) $\angle q = \angle r$
(3) $\angle p + \angle s$
(4) $\angle q + \angle s = 180°$

( )

11. In a kindergarten, the ratio of the number of boys to the number of girls is 1 : 2. The pie charts show the different ways boys and girls go to the kindergarten.

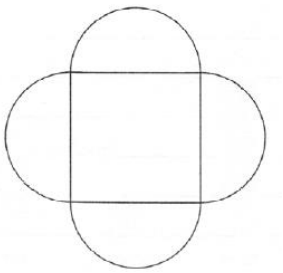


What is the ratio of the number of boys who walk to the kindergarten to the number of girls who walk to the kindergarten?

(1) 4 : 5
(2) 5 : 4
(3) 8 : 5
(4) 5 : 8

( )

12. The figure below is made of a square and 4 identical semicircles. The perimeter of the figure is 16π cm.

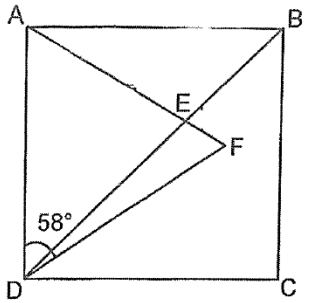


What is the perimeter of the square?

(1) 8 cm
(2) 16 cm
(3) 32 cm
(4) 64 cm

( )

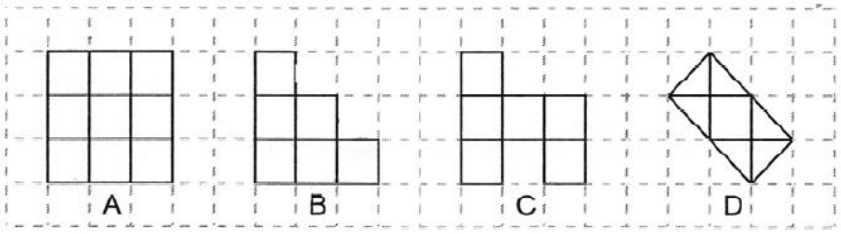
13. In the figure, ABCD is a square. AD = DF and ∠ADF = 58°. Find ∠BEF.



(1) 71°
(2) 74°
(3) 106°
(4) 109°

( )

14. The shapes below are drawn on square grids.



Which of the following statements is true?

(1) A and B have the same perimeter.
(2) A and B have the same area.
(3) C and D have the same area.
(4) C has a larger area than B.

( )

15. Miss Chan bought some apples and kiwis and packed them into two bags. $\frac{3}{4}$ of the fruits were in bag A and the rest in bag B. $\frac{4}{9}$ of the fruits in bag A were apples. $\frac{1}{2}$ of the fruits bought were kiwis. What fraction of the fruits in bag B were apples?

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

(2) $\frac{1}{6}$

(3) $\frac{5}{9}$

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

( )

Booklet B: (25 marks)

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. The use of calculators is NOT allowed.

(5 marks)

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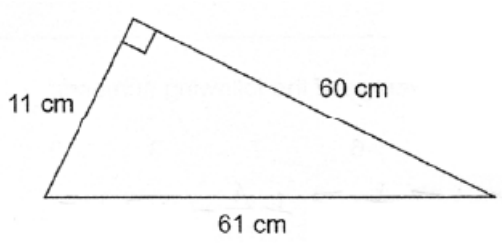
16. Write six million, sixty thousand and sixty in numerals.

Ans: _____

17. Find the value of 2.36 x 60.

Ans: _____

18. Find the area of the right-angled triangle below.



Ans: _____ cm^2

3

19. Find the value of $\frac{1}{8} \div 14$.

Give your answer as a fraction in the simplest form.

Ans: _____

20. Calculate the average of the following numbers.

6 7 3 0 4

Ans: _____

2

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. The use of calculators is <u>NOT</u> allowed.

(20 marks)

21. Use all the digits 6, 5, 0, 8 to form .

a) the greatest multiple of 5.

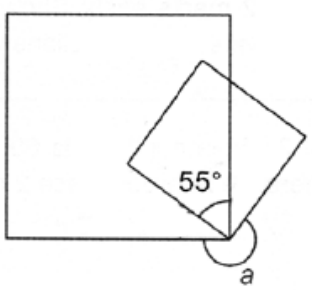
Ans: _____

b) the greatest number closest to 6000.

Ans: _____

22. The diagram below shows 2 overlapping squares.

Find ∠a.



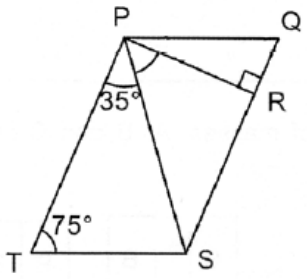
Ans: _____°

4

23. In one minute, Machine A can pack 5 boxes donuts while Machine B can pack 2 boxes of donuts. Both machines started packing at 12.50 a.m. At what time will both machines pack 175 boxes of donuts in total? Leave your answer in 24-hour clock.

Ans: _____

24. PQST is a parallelogram as shown below. ∠PTS = 75° and ∠TPS = 35°.



Find ∠SPR.

Ans: _____°

4

25. The rates for airmail to a country are shown in the table below.

First 20 g	? ¢
Every additional 10 g or less	12 ¢

Ben sent a letter that weighed 33 g. He paid 56 ¢. How much did Ben pay for the first 20 g of the letter?

Ans: _____ ¢

26. After Freda spent $\frac{3}{5}$ of her money and Monica spent $\frac{4}{7}$ of her money, each of them had $72 left. How much money did Freda have than Monica at first?

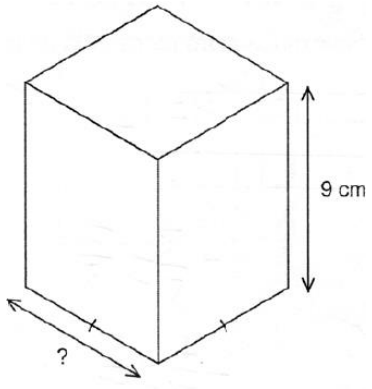
Ans: _____

4

27. 40 students helped to sell packets of peanuts at a school carnival. Each student was given 6 packets of peanuts to sell. Some students did not turn up, so each student had to sell 2 more packets of peanuts to meet the required sale. How many students did not turn up?

Ans: _____

28. The cuboid below has a square base. The volume of the cuboid is 576 cm^3.



Find the side of the square base.

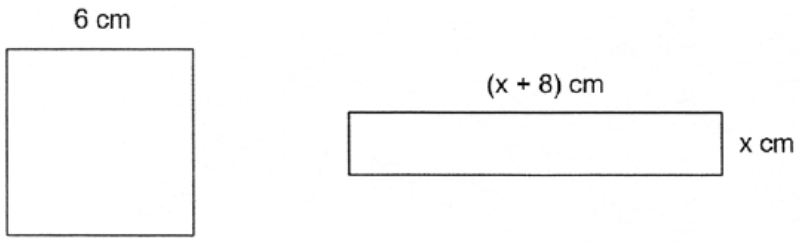
Ans: _____ cm

4

29. A bakery had a number of cupcakes for sale. After selling 42 cupcakes in the morning and $\frac{4}{9}$ of the remainder in the afternoon, it was left with $\frac{1}{3}$ of the cupcakes. How many cupcakes were left?

Ans: _____

30. The figure below shows a square and a rectangle. Both shapes have the same perimeter.



What is the value of x?

Ans: _____

4