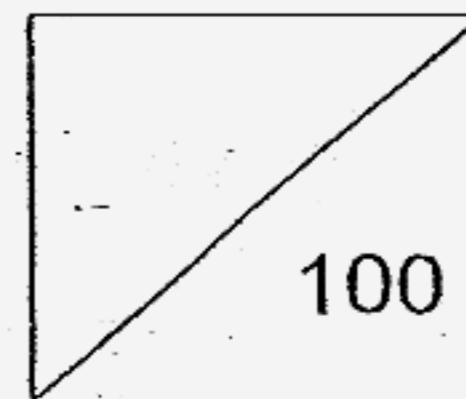# Catholic High School
End-Of-Year Examination 2007
Mathematics
Primary 3

100

Name: _____ (   )

Class: Primary 3 _____

Date: 25th October 2007

Duration: 1 h 30 min

Parent's Signature: _____

There are 3 sections consisting of **19 pages** in this paper.

Section A: Multiple-Choice Questions (MCQ)   20 x 2 marks

Section B: Open-Ended Questions   20 x 2 marks

Section C: Story Sums   5 x 4 marks

SECTION A: Multiple-Choice Questions (20 x 2 marks)

For each of the question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. How many tens are there in 5348?
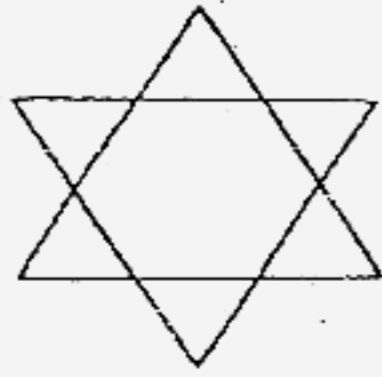
   (1)   48
   (2)   348
   (3)   534
   (4)   4

2. 3762 is 985 more than _____.

   (1)   2777
   (2)   2877
   (3)   4647
   (4)   4747

3. Find the product of 492 and 6.

   (1)   82
   (2)   498
   (3)   2952
   (4)   3056
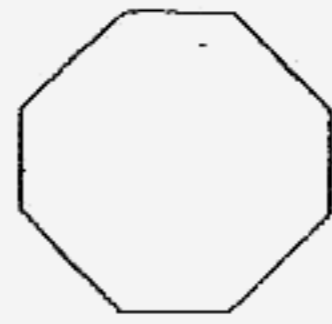
4. Express 175 minutes in hours and minutes.

   (1)   2 h 25 min
   (2)   2 h 45 min
   (3)   2 h 55 min
   (4)   3 h 15 min

5. Which one of the following diagrams has 3 pairs of parallel lines only?
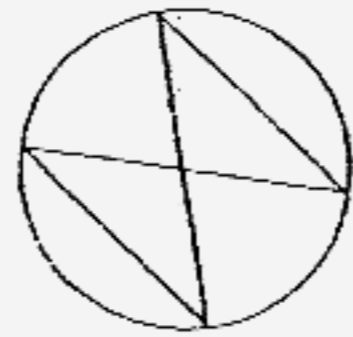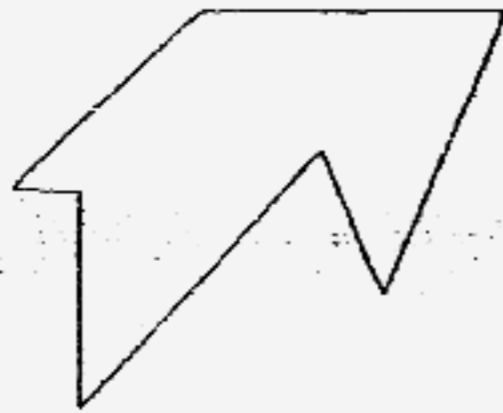
(1)

(2)

(3)


(4)

6. A fruit seller had 45 more durians than watermelons.
After selling 168 watermelons, he had 23 watermelons left.
How many durians did he have?

(1) 146
(2) 191
(3) 213
(4) 236

7. A bakery had 95 apple tarts and some egg tarts.
    After selling 286 tarts, there were 47 tarts left.
    How many egg tarts were there at first?

    (1)   142
    (2)   238
    (3)   239
    (4)   333

8. Mr. Tan wanted to pack some potatoes into packets of 6 potatoes each.
    After packing the potatoes, he had 9 packets and was left with 5 potatoes.
    How many potatoes did he have in all?

    (1)   39
    (2)   49
    (3)   54
    (4)   59

9. The length of the wooden plank AB is 45 cm.
    John wants to make cuts on the wooden plank at 9-cm intervals.
    How many cuts will he have made from A to B?

    45 cm

    (1)   5
    (2)   36
    (3)   54
    (4)   4

58
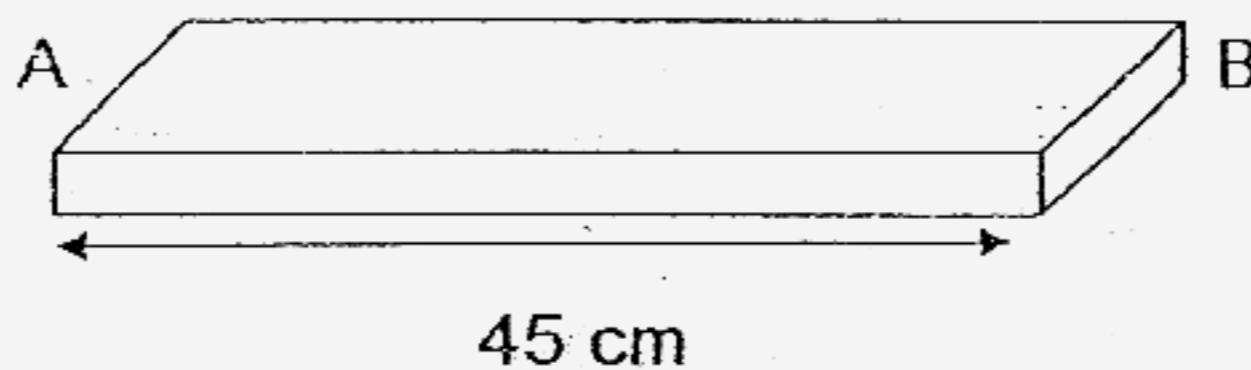
10. Look at the picture below.
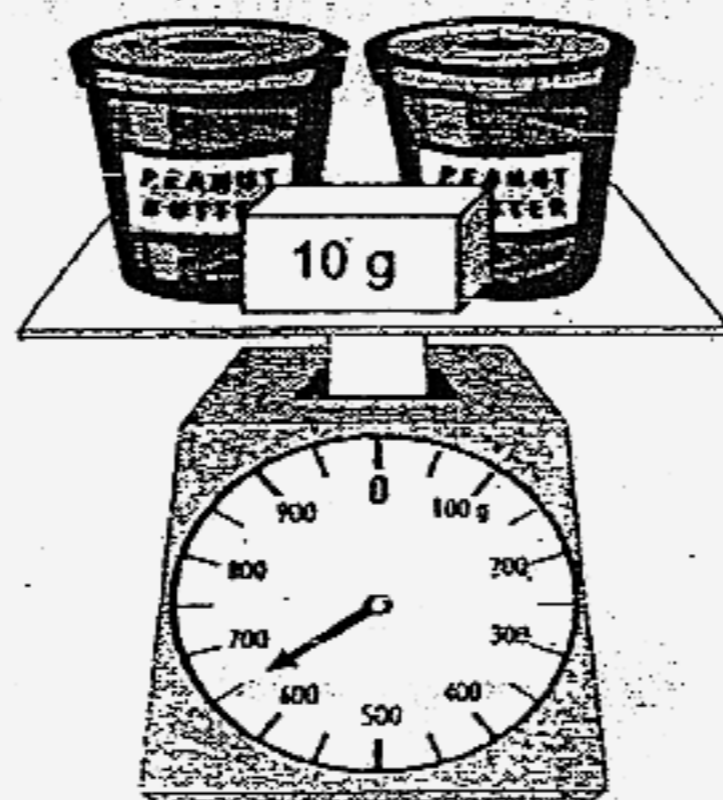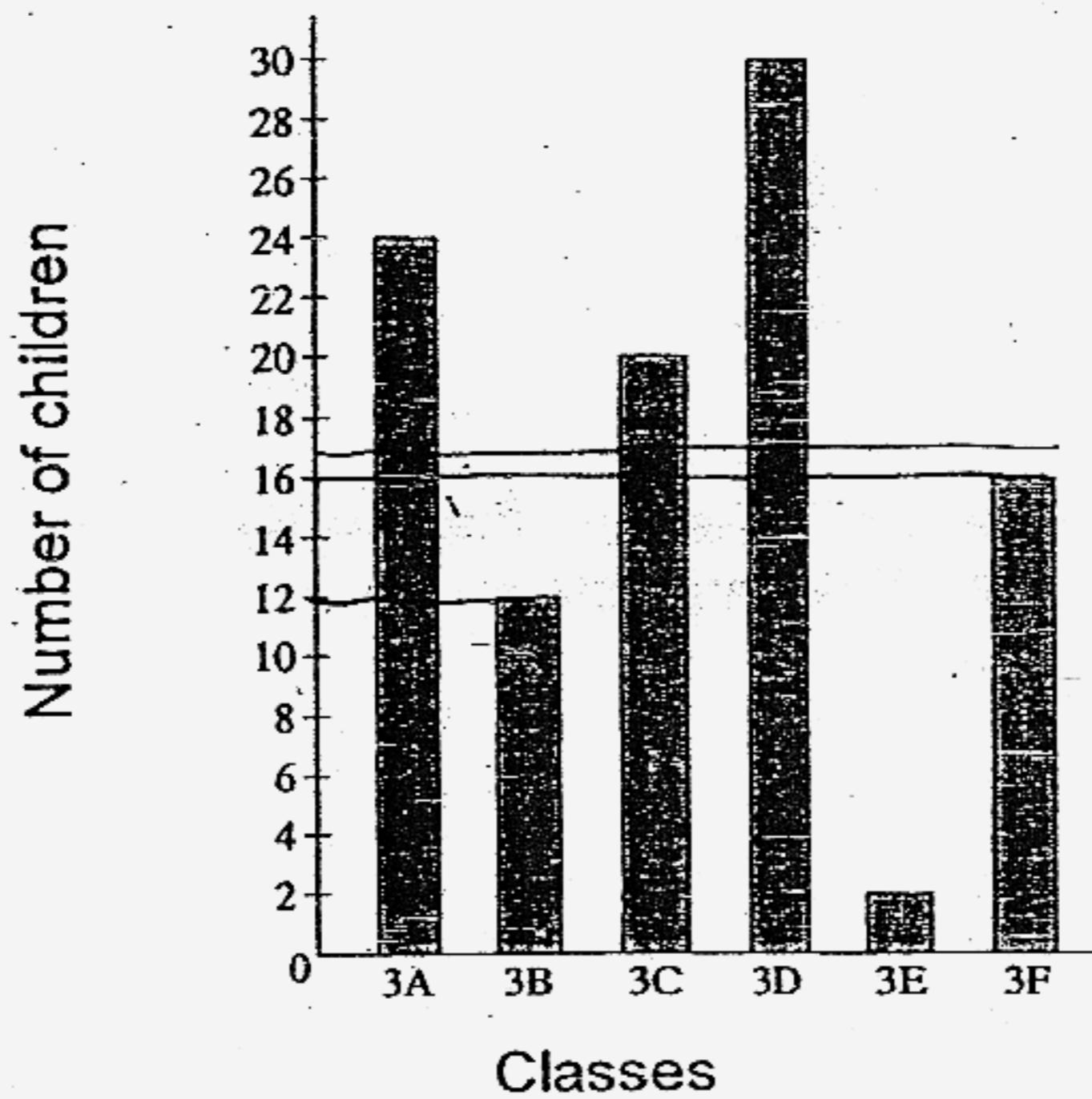

Given that the mass of both jars of peanut butter is the same, find the mass of 1 jar of peanut butter.

(1) 320 g
(2) 325 g
(3) 640 g
(4) 650 g

11. Mrs. Ng spent $\frac{5}{12}$ h on mopping the floor and $\frac{1}{4}$ h on doing the laundry. How much time did she spend on both chores?

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

(2) $\frac{1}{3}$ h

(3) $\frac{1}{2}$ h

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

4

The graph below shows the number of children who keep pets in some classes. Use it to answer questions 12 and 13.
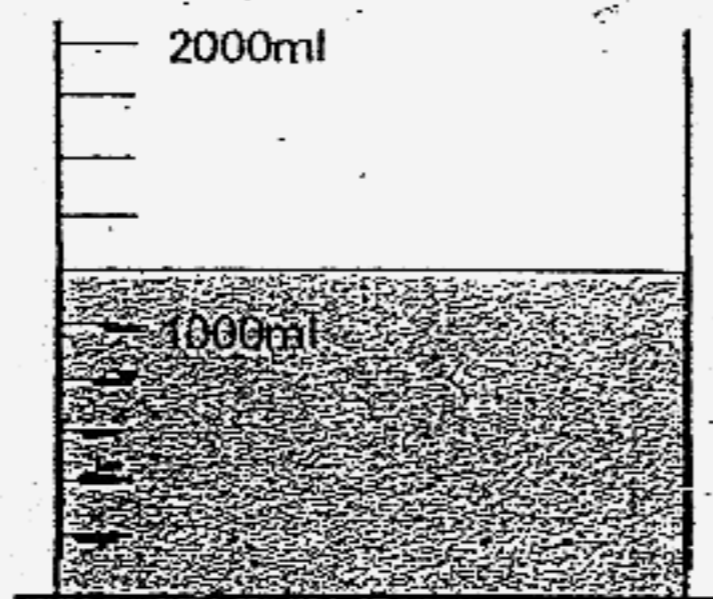

12. If there are 37 children in class 3F, how many children do not keep pets?

    (1)   16
    (2)   21
    (3)   35
    (4)   53

13. Which class has half as many children keeping pets as class 3A?

    (1)   3B
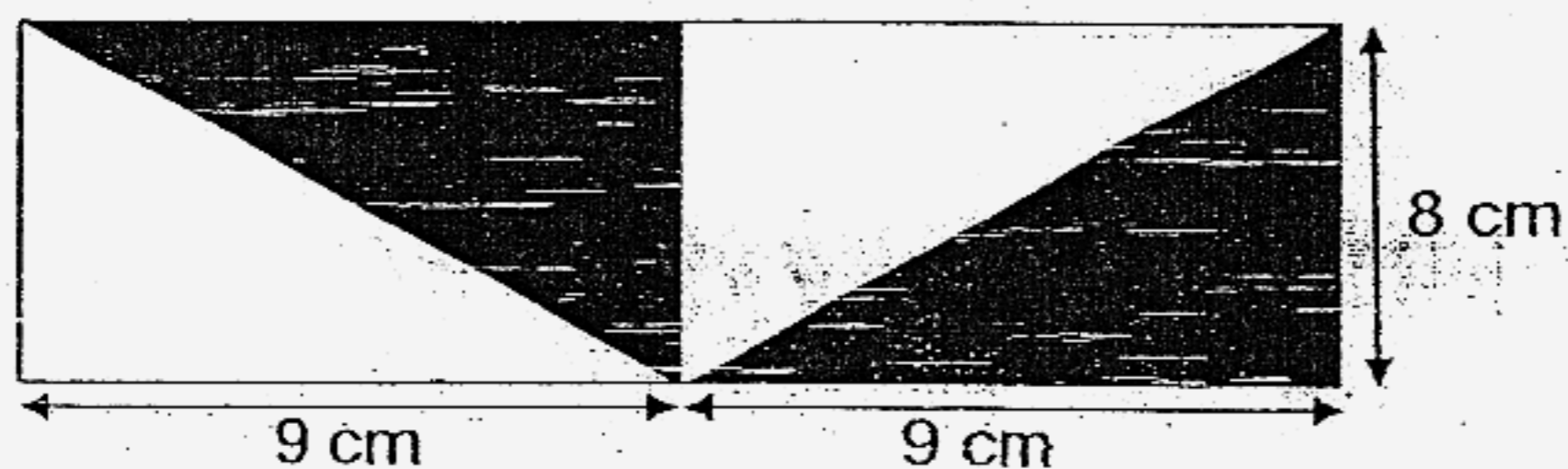   (2)   3C
    (3)   3D
    (4)   3E

5

14. The beaker shown below contains some water.

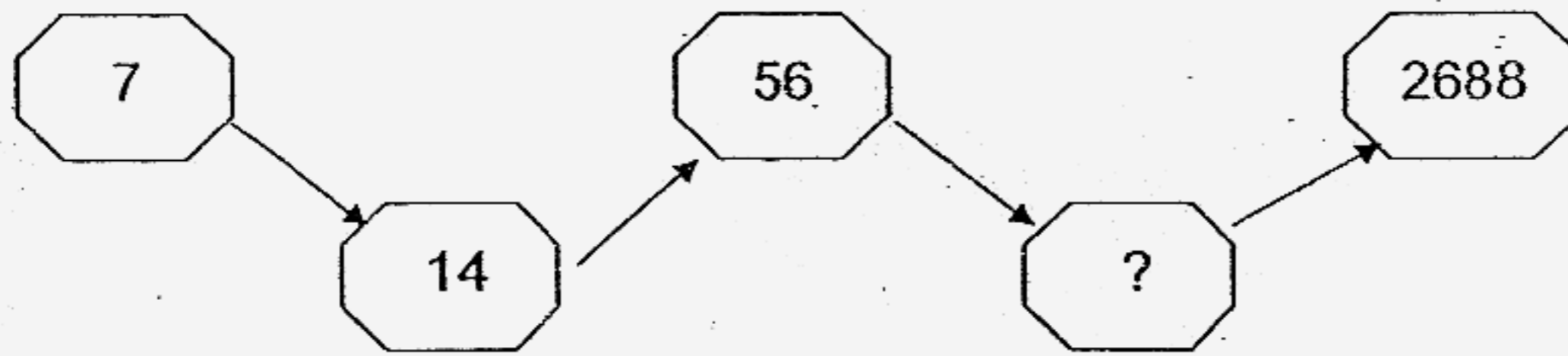280 ml of water is added to the water in the beaker, how much water will there be in the beaker now?

(1)   920 ml
(2)   1250 ml
(3)   1380 ml
(4)   1480 ml

15. Find the shaded area of the figure below.

(1)   36 cm^2
(2)   52 cm^2
(3)   72 cm^2
(4)   144 cm^2

6

16. Study the pattern carefully. Find the missing number.

```
  ( 7 )              ( 56 )              ( 2688 )
         \         /        \          /
          ( 14 )             ( ? )
```

(1) 21
(2) 28
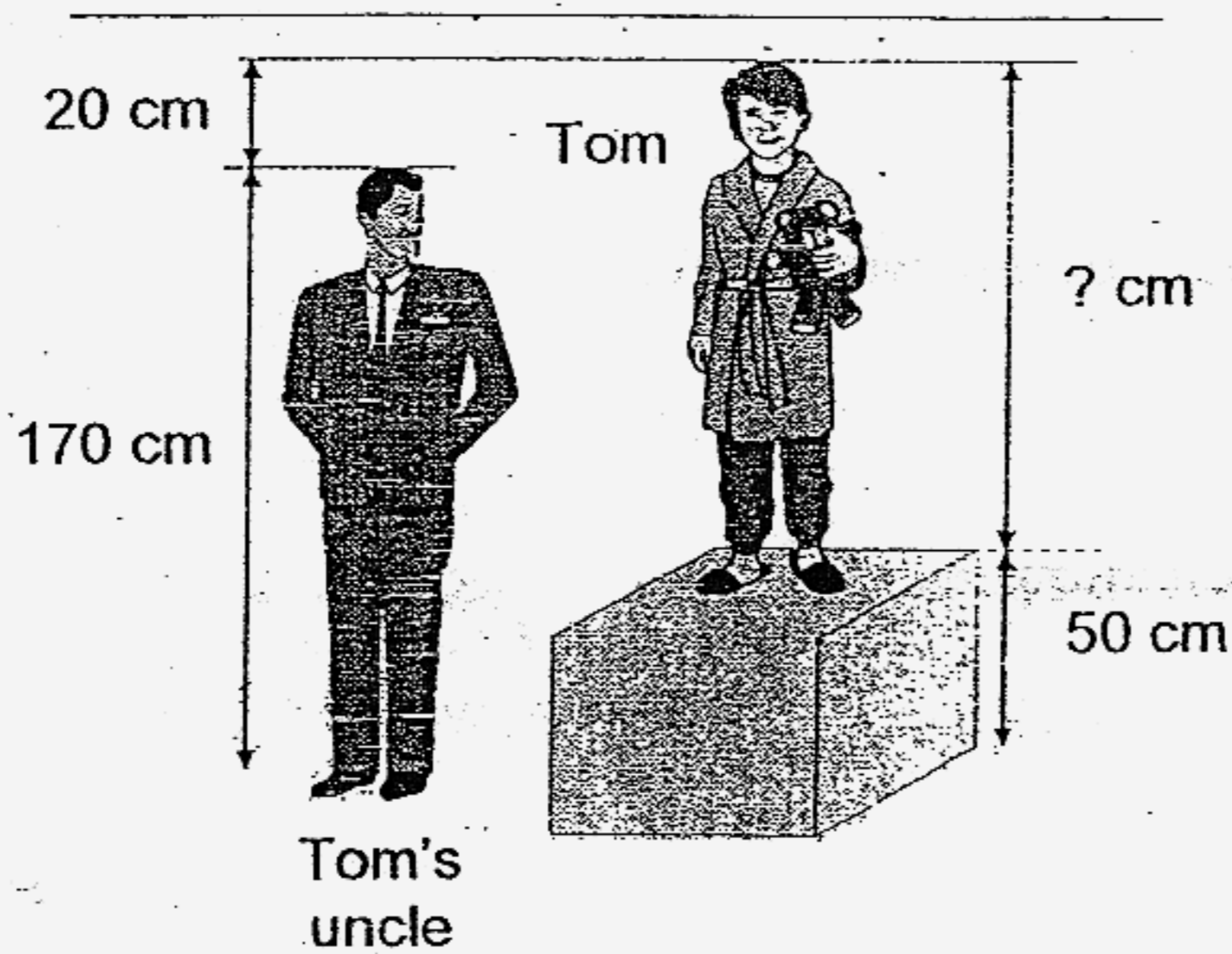(3) 56
(4) 336

17. Li Da spilled some ink on a receipt.
What was the greatest total possible amount on the receipt?

```
┌─────────────────────────┐
│       Receipt           │
│ Toothpaste ---- $3.50   │
│  Detergent  ---- $6.80  │
│ Toilet Roll ---- $4.     │
│                         │
│ Total        $15.  5    │
└─────────────────────────┘
```

(1) $15.05
(2) $15.15
(3) $15.25
(4) $15.95

7

18. What is the height of Tom?

(1)   50 cm
(2)   120 cm
(3)   140 cm
(4)   190 cm

19. The mass of a beaker of water filled to the brim was 650 g.
When half of the amount of water was poured out, the total mass
of the beaker of water became 410 g.
What was the mass of the empty beaker?

(1)   140 g
(2)   170 g
(3)   240 g
(4)   1060 g

8

20. Terrence had some toys.

$\frac{1}{2}$ of the total number of toys were guns.

$\frac{1}{4}$ of the total number of toys were cars.

The rest were aeroplanes.

Given that there were 5 toy cars, how many toys did he have in all?

(1) 5
(2) 10
(3) 15
(4) 20

Please turn over to the next page.

9

SECTION B: Open-ended Questions (20 x 2 marks)

Show your working clearly in the space provided and write the correct answers in the answer boxes provided.

21. $18.90 + $43.55 = _____

$

22.   Fill in the blanks with "m" or "km".
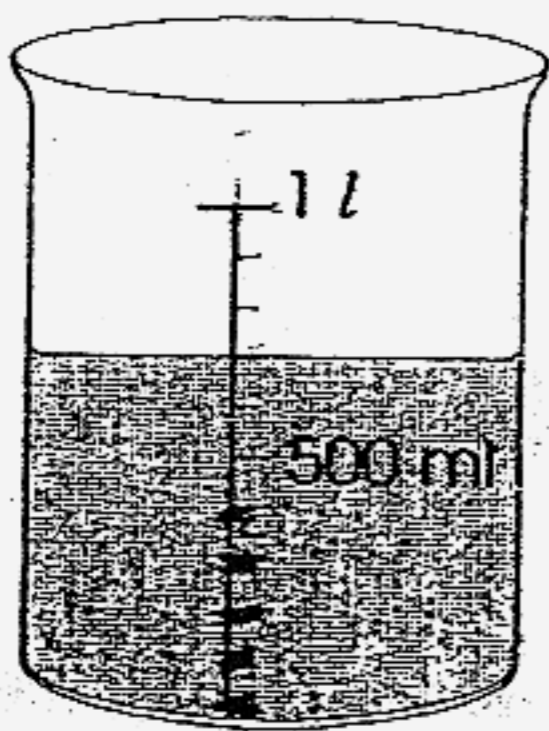
a)   Joe cycles 6 _____ to school every day.

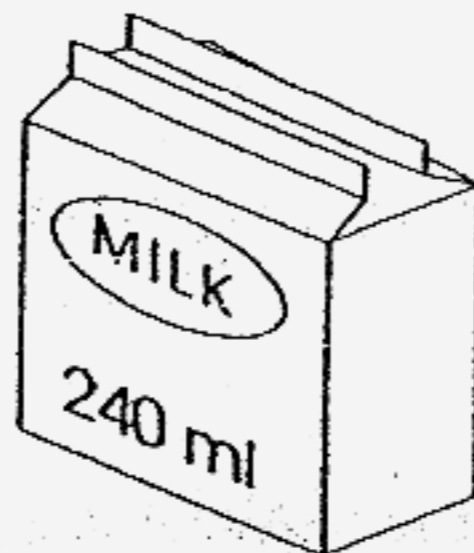| (a) |
|---|

b)   The height of a tree is 10 _____ tall.

(b)

23.

Beaker   Packet   Glass

The beaker contains some milk while the packet and the glass are empty. How much milk will be left in the beaker after filling some milk into the packet and the glass completely?

ml

10

24. Find the perimeter of the figure below.

15 cm

12 cm
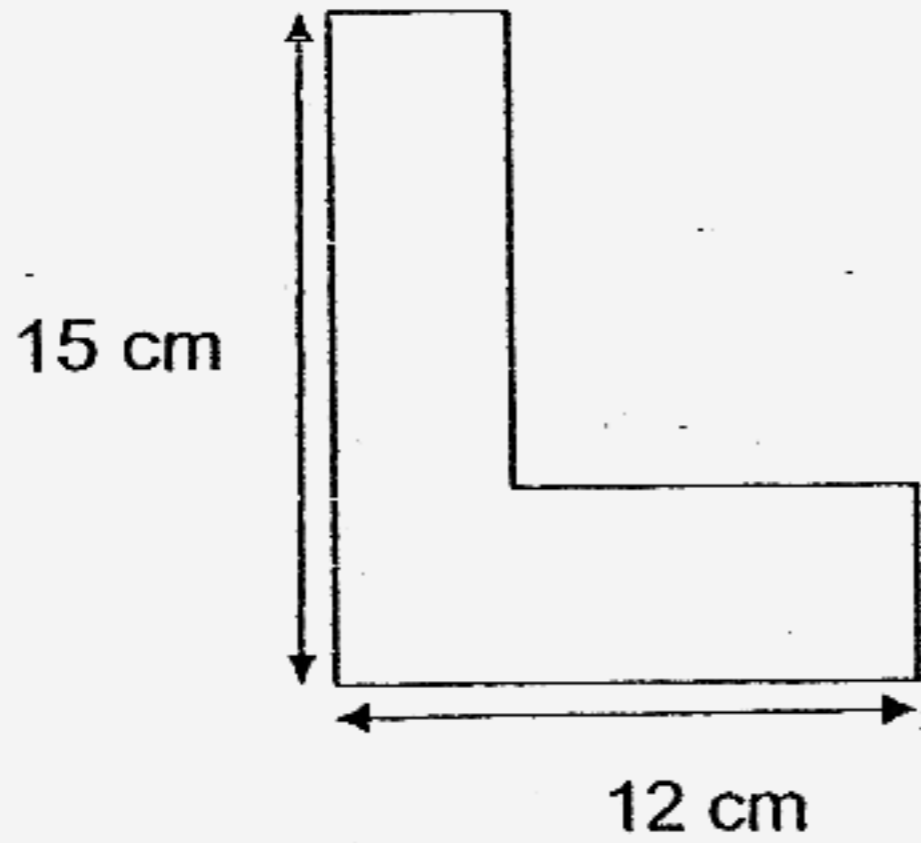
| | cm |

25. How many odd numbers are there between 2356 and 2368?

| |

26. A bottle can hold 426 ml of tomato juice. How much tomato juice can 8 such bottles hold?
Express your answer in litres and millilitres.

| | ml |

11

27. Arrange the fractions in order, beginning with the greatest.

$$\frac{1}{3} \quad \frac{5}{6} \quad \frac{3}{4}$$

```
┌─────────────────────┐
│                     │
└─────────────────────┘
        Greatest
```
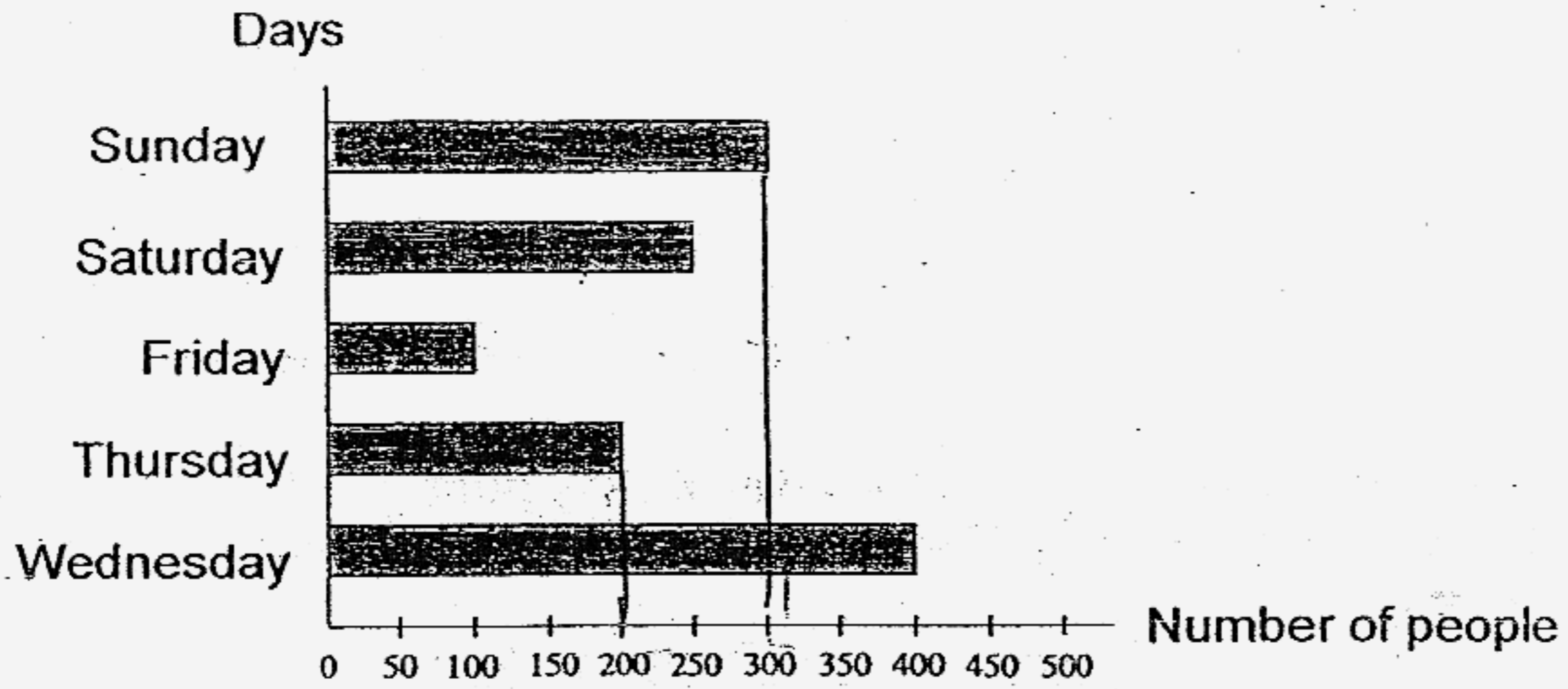
28. The table below shows the number of curry puffs sold by five shops in a week. Which three shops sold a total of 990 curry puffs?

	Number of curry puffs sold
Shop A	125
Shop B	865
Shop C	399
Shop D	466
Shop E	373

```
┌─────────────────────┐
│                     │
└─────────────────────┘
```

29. Benny left his house for work at 8.50 a.m. He took 45 min to travel to work. At what time did he reach his office?

```
┌─────────────────────┐
│               a.m.  │
└─────────────────────┘
```

30. The graph below shows the number of people at a swimming complex over five days.

Days

Sunday

Saturday

Friday

Thursday

Wednesday

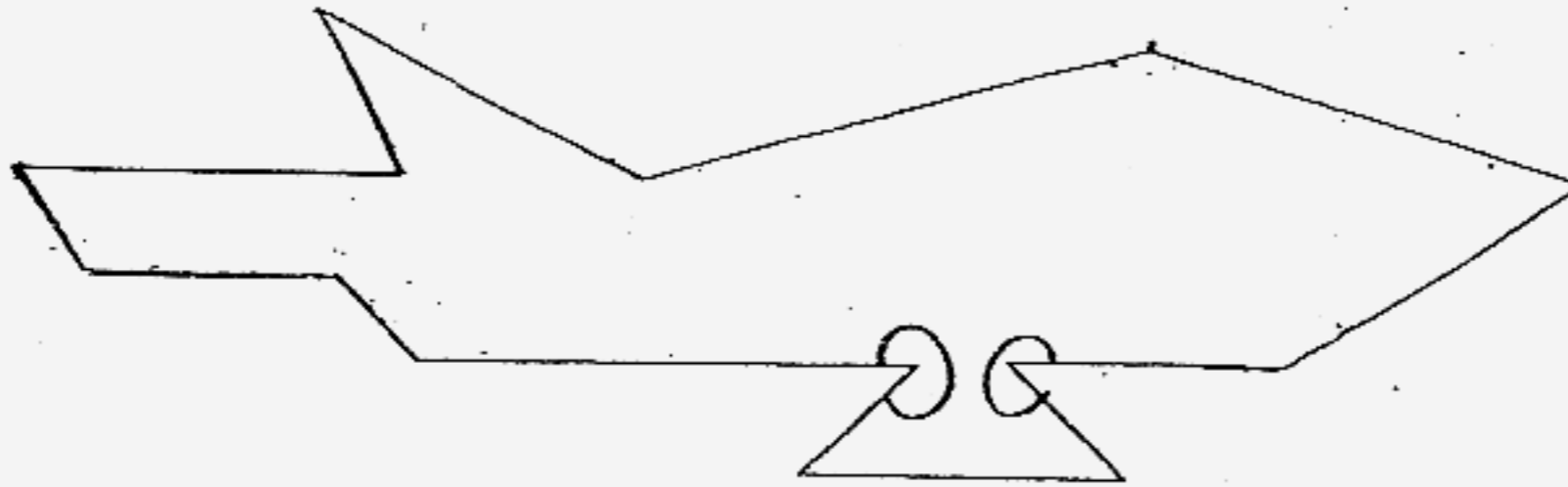0 50 100 150 200 250 300 350 400 450 500   Number of people

There were 100 fewer people who went to the swimming complex on Sunday than on _____.

31. By using all the digits as shown below, find the greatest difference.
Use all the digits once only.

2   3   4   5   6   7

?	?	?

−

?	?	?

?

13
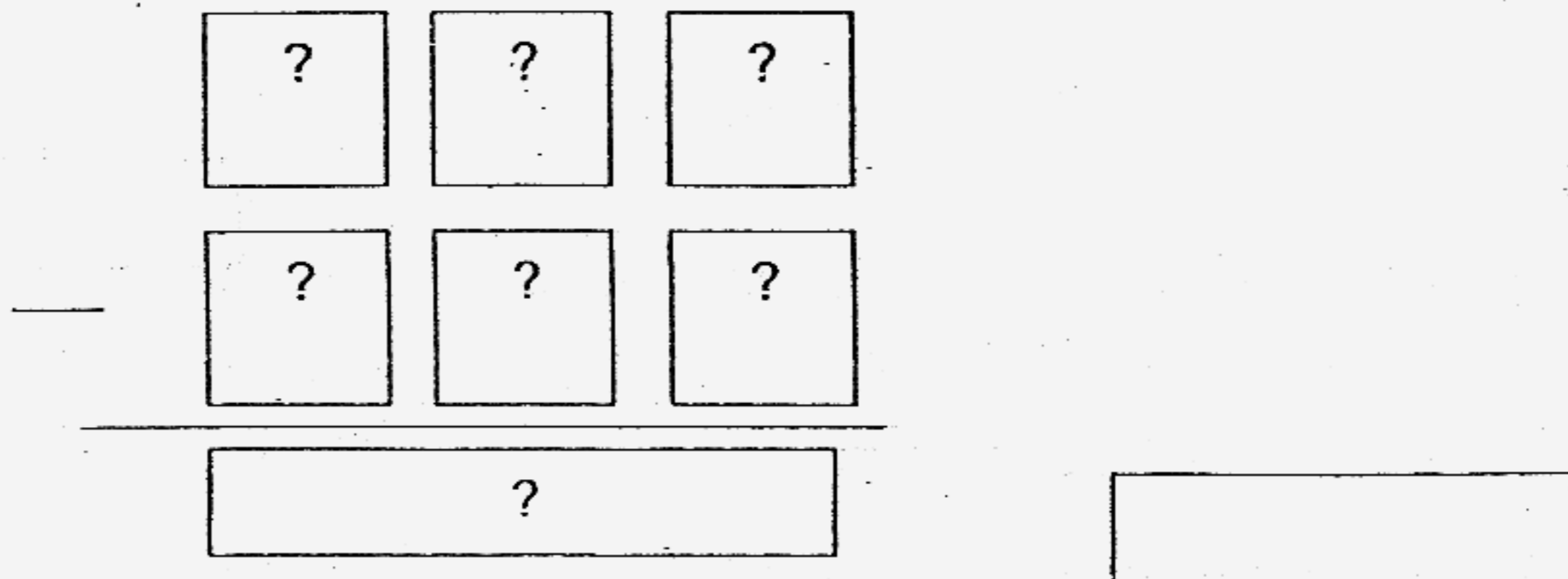
32. Look at the figure below. How many angles are greater than a right angle **inside** the figure?
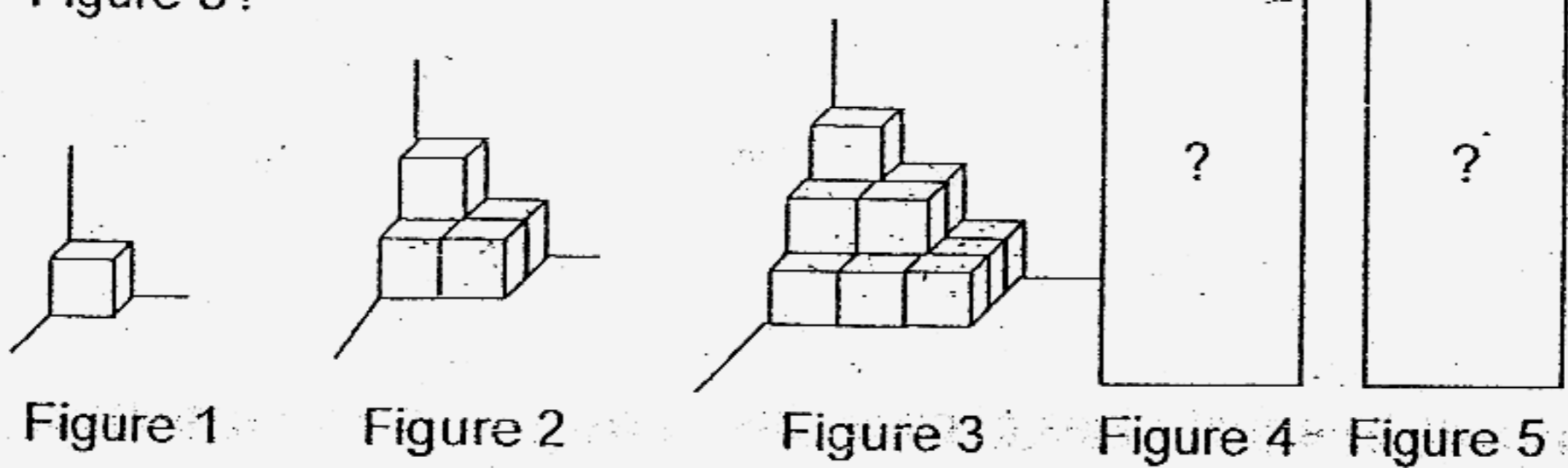

angles

33. Evan cycled once around a rectangle field with a perimeter of 500 m. If the length of the field is 180 m, find its breadth.

m

34. Study the pattern carefully. How many cubes will there be in Figure 5?

Figure 1   Figure 2   Figure 3   Figure 4   Figure 5

cubes

35. There are 6 teams playing in a badminton tournament. Each team is scheduled to play against every other team once. How many games are scheduled for the tournament?

36. 960 adults were watching a soccer match at a stadium. There were 3 times as many men as women at the stadium. How many women were watching the soccer match?

women

37. The area of square ABCD is 81 m^2. Find the area of BEFC if the length of BE is twice the length of AB.

m^2

38. Amy had 10 equal slices of cake. She gave $\frac{3}{5}$ of the total number of slices of the cake to her neighbour.

How many slices of cake did she give to her neighbour?

slices

39. Five trains leave the train station at equal intervals. The first train leaves at 7.20 a.m. and the last train leaves at 10.20 a.m. How long is each interval?

| | min |

40. Danny had some money. He spent half of the money in the first week. He spent half of what was left in the second week and had $34 left. How much money did Danny have at first?

| $ |

16

SECTION C: Story Sums (5 x 4 marks)
Solve the following story sums. All workings must be shown clearly.
Draw models if necessary.

41. Grace, Eunice and Beautrice shared $240.
Grace had twice as much money as Eunice.
Eunice had thrice as much money as Beautrice.
How much money did Beautrice have?

42. Bruce had twice as many picture cards as Evan.
After Bruce had lost 180 picture cards, Evan had thrice as many picture cards as Bruce.
How many picture cards did Bruce have at first?

17

43. The total mass of a bottle of chilli sauce and a bottle of tomato sauce is 450 g. The mass of the bottle of chilli sauce is 80 g heavier than the bottle of tomato sauce.
What is the mass of the bottle of tomato sauce?

44. Mark and Spencer had $246 and $150 respectively. How much money must Mark give to Spencer so that both of them would have the same amount of money?

18

45. Amanda finished her work at 3.20 p.m. according to her watch. Her watch was 25 minutes fast.
    She worked for 3 h 15 min.
    (a) What was the actual time she finished her work?
    (b) What was the actual time she started her work?

END OF PAPER
☺ *Please check your work.* ☺

Catholic High Primary School
Primary 3 SA2 Maths Exams (2007)

Answer Keys

1)	3	2)	1	3)	3	4)	3	5)	1
6)	4	7)	2	8)	4	9)	4	10)	1
11)	4	12)	2	13)	1	4	4	15)	3
16)	4	17)	3	18)	3	19)	2	20)	4

21. $62.45

22a. km
22b. m

23. 140ml

24. 54cm

25. 6

26. 3ℓ 408mℓ

27. $\dfrac{5}{6}, \dfrac{3}{4}, \dfrac{1}{3}$

28. C, D, A

29. 9.35am

30. Wednesday
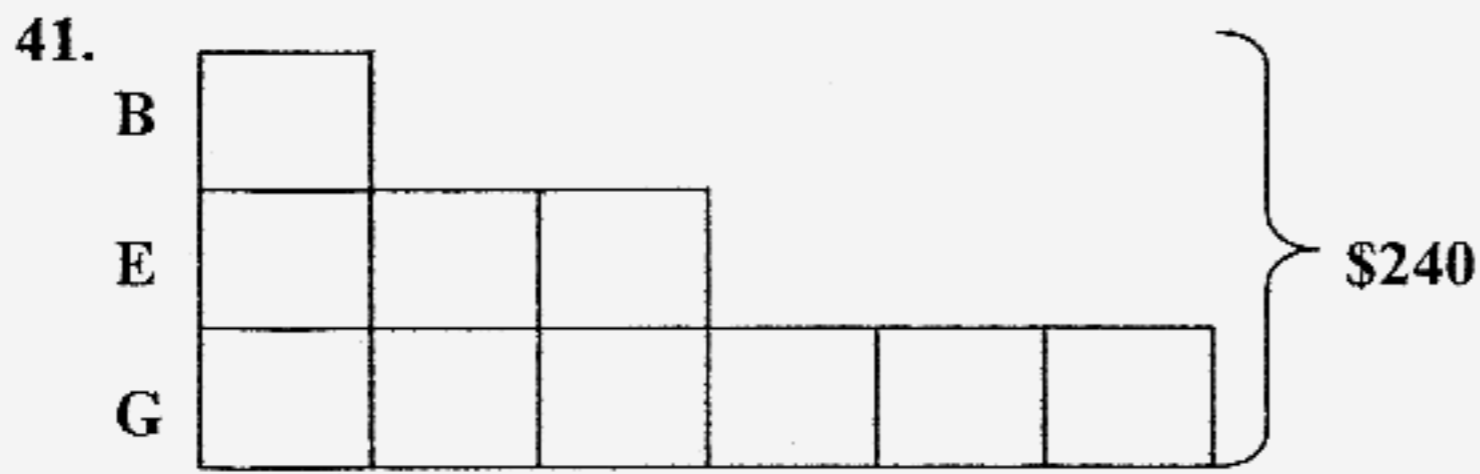
31. 531

32. 9 angles

33. 70m

34. 55 cubes

35. 15 games
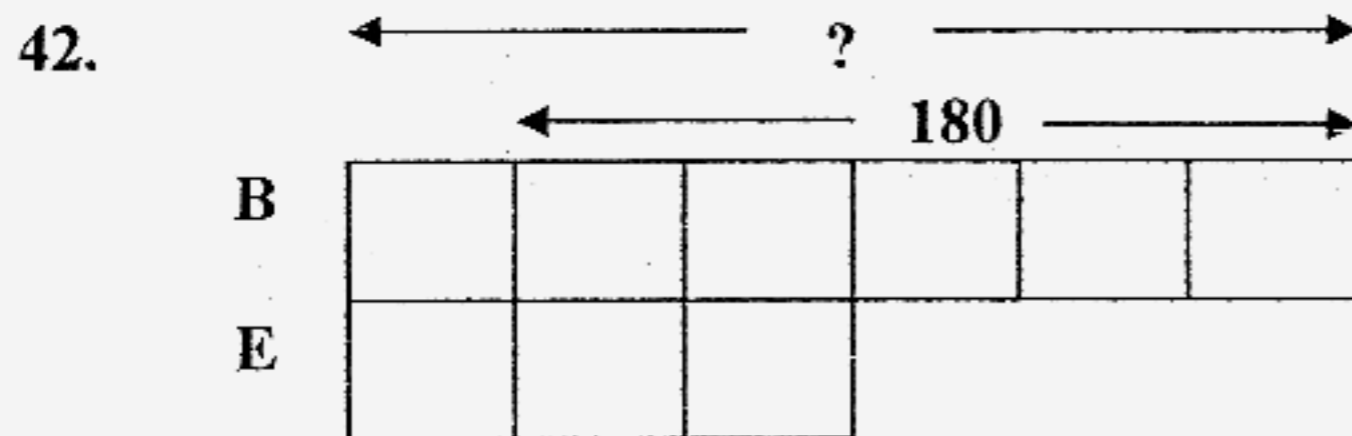
36. 240 women

37. $162m^2$

38. 6 slices

39. 45mins

40. $34 x 2 = $68
$68 x 2 = $136

41.

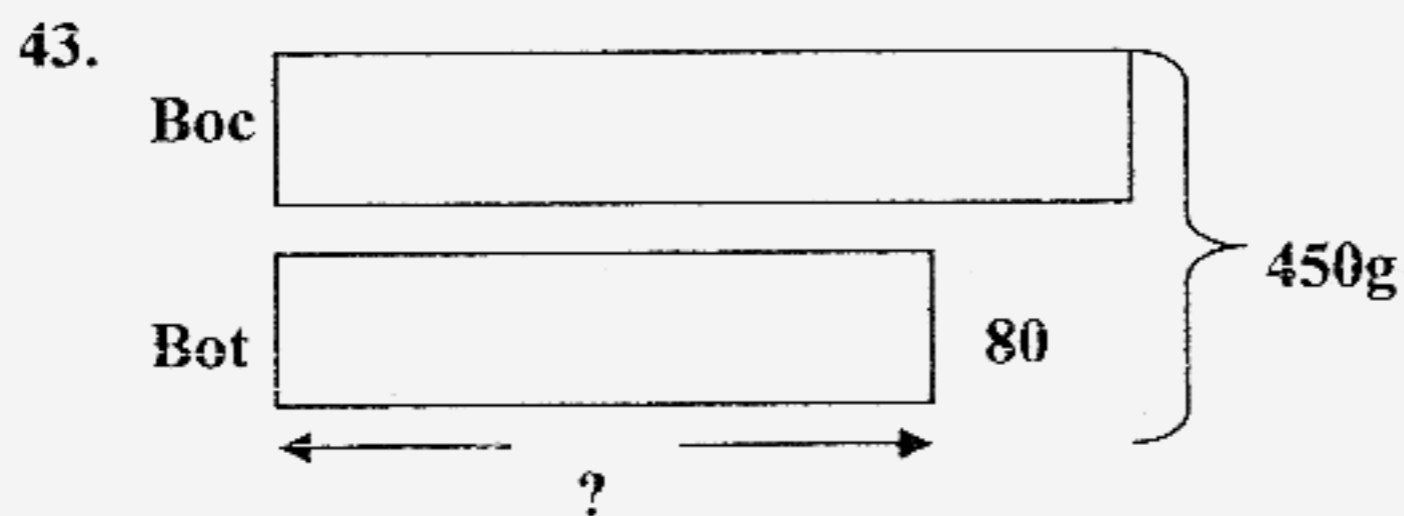$$10u = \$240$$
$$1u = \$240 \div 10 = \$24$$

Beautrice had $24

42.

$$5u = 180$$
$$1u = 180 \div 5$$
$$\quad = 36$$
$$6u = 36 \times 6$$
$$\quad = 216$$

Bruce had 216 picture cards at first.

43.

$$450g - 80g = 370g$$
$$370g \div 2 = 185g$$

The mass of the tomato sauce is 185g

44. $\$246 - \$150 = \$96$
$\$96 \div 2 = \$48$
Mark must give $48 to Spencer.

45a. The actual time is 2.55pm

45b. The actual time she started work is 11.40am