⬡ Paper 2
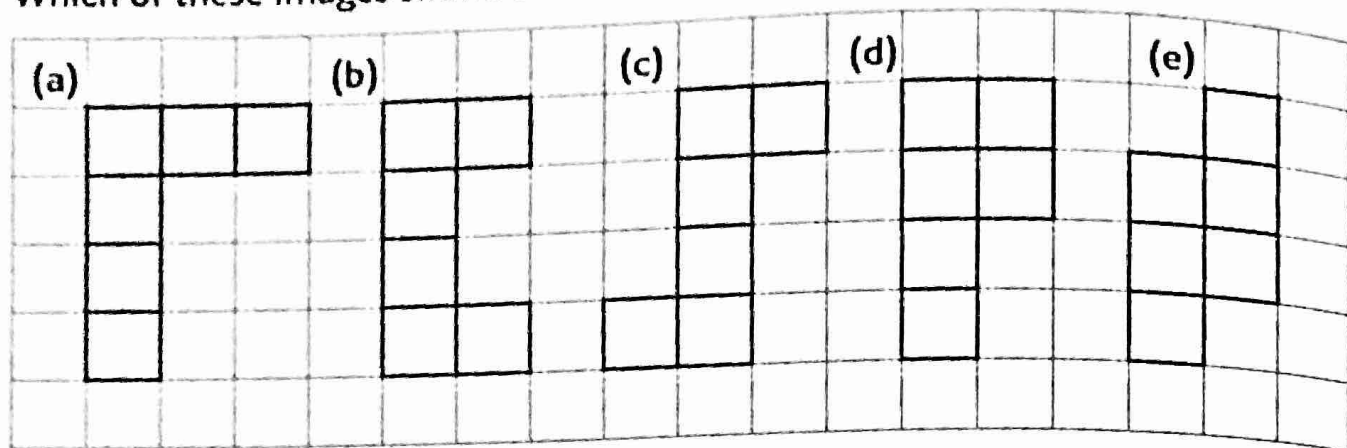
Circle the correct answer for each question.
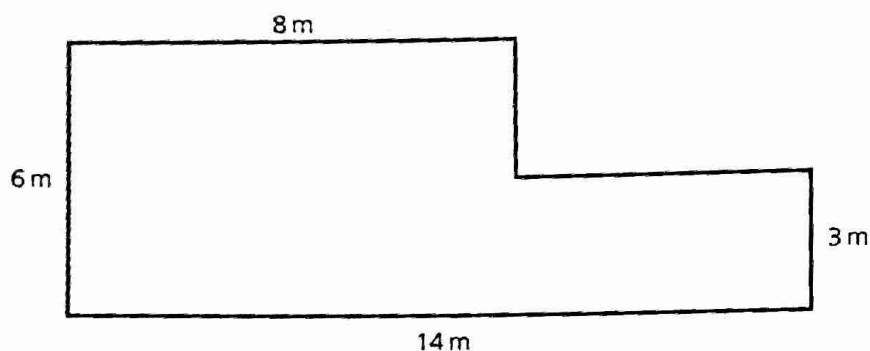
1 Bob buys 5 cups of hot chocolate each costing £1.85 and 4 cakes each costing £1.60
  (a) How much will this cost? (3)
     (i) £15.65   (ii) £15.45   (iii) £11.75   (iv) £9.75   (v) £16.25
  (b) He pays with a £20 note. What is the fewest number of coins he could receive to get the correct change? (1)
     (i) 3 coins   (ii) 4 coins   (iii) 5 coins   (iv) 6 coins   (v) 7 coins
  (c) The next day there is a 'Buy one, get one free' offer on the cakes. He buys 5 cups of hot chocolate and 4 cakes and pays with a £20 note. How much change should he receive? (3)
     (i) £8.25   (ii) £9.35   (iii) £10.75   (iv) £6.55   (v) £7.55
  (d) What is your answer to part (c) rounded to the nearest £1.00? (1)
     (i) £7   (ii) £8   (iii) £9   (iv) £10   (v) £11
  (e) Another customer receives £1.63 in change. Which combination of coins is this? (1)
     (i) £1, 50p, 20p, 1p   (ii) £1, 50p, 10p, 2p, 1p
     (iii) £2, 50p, 10p, 2p, 1p   (iv) £1, 50p, 10p, 5p   (v) £1, 10p, 2p, 1p

2 Here are some long jump distances.
  3.65 m   3.45 m   3.25 m   3.57 m
  (a) What is the mean of these long jump distances? (2)
     (i) 3.50 m   (ii) 13.92 m   (iii) 3.55 m   (iv) 3.45 m   (v) 3.48 m
  (b) The longest jump is 3.65 m and the smallest jump is 3.25 m. What is the range of these distances? (1)
     (i) 3.65 m   (ii) 3.25 m   (iii) 13.92 m   (iv) 0.4 m   (v) 0.45 m

3 Peter, Alex and Michelle share sweets in a bag in the ratio 4:3:2
  Michelle receives 8 sweets.
  (a) How many sweets does Peter receive? (2)
     (i) 4   (ii) 8   (iii) 9   (iv) 12   (v) 16
  (b) How many sweets are in the bag at the start? (2)
     (i) 9   (ii) 24   (iii) 36   (iv) 48   (v) 72

Turn over to the next page

4 Which of these images shows the net of a cube?   (1)

(a)   (b)   (c)   (d)   (e)

5 Below is a plan view of Rebecca's bedroom.

8 m

6 m

3 m

14 m

Not drawn accurately

(a) What is the perimeter of Rebecca's bedroom?   (1)
   (i) 40 m   (ii) 44 m   (iii) 48 m   (iv) 80 m   (v) 84 m

(b) What is the area of Rebecca's bedroom?   (3)
   (i) 48 m²   (ii) 60 m²   (iii) 66 m²   (iv) 84 m²   (v) 90 m²

(c) Carpet costs £8.40 per square metre. How much will it cost to carpet Rebecca's bedroom?   (1)
   (i) £600.50   (ii) £582.60   (iii) £560.60   (iv) £550.50   (v) £554.40

6 Which number is missing from each number sentence?

(a) $26 - 13 = 20 - $ _____   (2)
   (i) 6   (ii) 7   (iii) 4   (iv) 8   (v) 5

(b) $50 \div$ _____ $= 2 \times 5$ (2)
   (i) 10   (ii) 2   (iii) 15   (iv) 5   (v) 50

7 The tally chart shows how children travelled to a local primary school on the first day of term.

Type of travel	Tally
Walking	JHT JHT JHT JHT JHT JHT JHT JHT JHT JHT JHT II
Car	JHT JHT JHT JHT JHT JHT JHT JHT JHT JHT JHT JHT JHT III
Bicycle	JHT JHT JHT JHT JHT JHT II
Bus	JHT JHT JHT JHT JHT JHT II
Scooter	JHT JHT I

(a) How many children travelled by bicycle?   (1)
   (i) 5   (ii) 15   (iii) 32   (iv) 26   (v) 52

(b) How many children went to school on this day? (2)

    (i) 120   (ii) 132   (iii) 134   (iv) 136   (v) 200
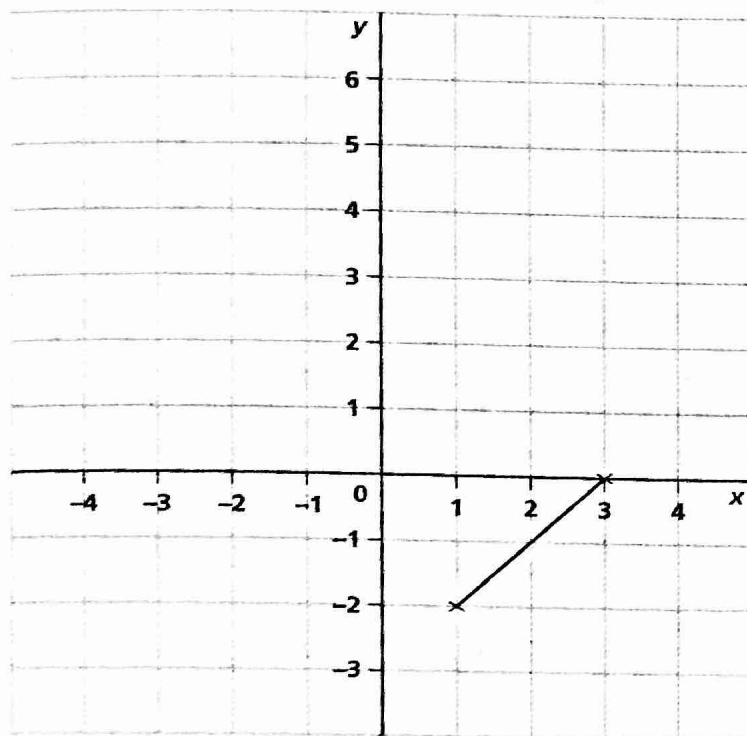
(c) How many more children came by car than by bus? (2)

    (i) 16   (ii) 24   (iii) 36   (iv) 70   (v) 72

(d) What fraction of the children walked, cycled or scooted to school? (3)

    (i) $\frac{1}{2}$ (ii) $\frac{1}{4}$ (iii) $\frac{3}{25}$ (iv) $\frac{9}{50}$ (v) $\frac{1}{75}$

8 One side of a square is drawn on the grid below. If the square fits on the grid, what are the co-ordinates of the missing vertices. (2)

(a) (2, 1) (0, −1)   **(b)** (1, 2) (−1, 0)   **(c)** (−1, 2) (0, −1)

(d) (2, 2) (−1, 1)   **(e)** (1, 1) (−1, −1)

Record your results and move on to the next paper

Score ☐ / 36   Time ☐ : ☐