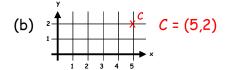
November 2008 Paper 1 (Foundation) - Non-Calculator

Actual answers in RED

- (a) 3 (b) Cat (c) 22
- 2 (a) 9374
 - (b) Sixty-two thousand, five hundred
 - (c) 80 (eighty)
 - (d) 2200 (e) 7000
- 3 (a) 6.8cm (b) (measure 3.4cm)
 - (c) (use compasses with distance = 4cm)
- (a) (i) A = (1,4) (ii) B = (3,0)



- 5 (a) (i) km (ii) litres
 - (b) (i) 5 cm = 50 mm (ii) 4000 g = 4 kg
- 6 (a) any 2 of: 3, 5, 9, 11
 - (b) either 5+10 or 6+9
 - (c) possible factors of 12: 3 or 6
 - (d) multiples of 4: 8 or 16
 - (e) 5^2 =25 not 10 James has multiplied by 2 instead of 5
- 7 (a) trapezium (1 pair of parallel sides)
 - (b) $x=60^{\circ}$ (c) y is an obtuse angle

- (c) (add 4 each time) no. of squares = 41
- (a) cost = 3x60p = £1.80
 - (b) cost + £2.70+45p+60p = £3.75change = £5-£3.75 = £1.25
 - (c) $\frac{2}{3} \times 60 = \frac{120}{3} = 40p$
- 10 (a)
- 11 (a) Colin's age is n-3
 - (b) Daniel's age is 2n

- 12 (a) Perimeter = 10+20+10+20 = 60cm
 - (b) Area = $10 \times 20 = 200 \text{cm}^2$
- 13 (a) $2\times(11+9) = 2\times20 = 40$
 - (b) 3x5+4 = 15+4 = 19
 - (c) $20-5\times3 = 20-15 = 5$
- 14 (a) 4p+3r = 4x5 + 3x2 = 20+6 = 26
 - (b) n is even, so n+1 is an odd number
- 15 (a) if AB is straight, the angles add to 180° but 120°+50° = 170°
 - (b) $70 + 130 + 100 = 300 \ 360 300 = 60^{\circ}$
- 16 (a) Russia 92, Australia 16
 - (b) 38 (c) Italy
 - (d) 9 10
 - (e) Ratio = 48:32 (divide by 8) = 6:4(divide by 2) = 3:2
- 17 (a) Julie wants 12 tins. She buys 8 and gets 4 free. She pays $8 \times 40p = £3.20$
 - (b) 9 out of 12 ie $\frac{9}{12}$ x100 = $\frac{3}{4}$ x100 = 75%
 - (c) 15% of £20 = $\frac{15}{100}$ x 20 = 30÷10=3 Sale price = £20-3 = £17
- 18 Total drinks = 90 360°÷90 = 4° So 4° for each drink hot choc $20x4^\circ = 80^\circ$ soup $15x4^{\circ} = 60^{\circ}$ $coffee = 100^{\circ} tea = 120^{\circ}$

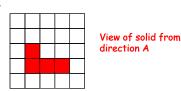


Measure <u>accurately</u> using protractor!

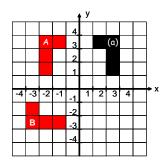
- 19 (a) 5bc + 2bc 4bc = 3bc
 - (b) 4x + 3y 2x + 2y = 2x + 5y
 - (c) $m \times m \times m = m^3$
 - (d) $3n \times 2p = 6np$
 - (e) 5m + 10 = 5(m+2)
- 20 In this order: B, D, C, A, F, E

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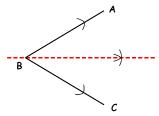
22



- (b) $A \rightarrow B$ Rotation 90° anticlockwise about the origin (0,0)
- 23 5:3 Total = 5 + 3 = 8 parts £48 ÷ 8 = £6 Sidra gets 5 x £6 = £30 Gemma gets 3 x £6 = £18 £30 - £18 = £12 Sidra gets £12 more
- 24 (a) 1. Question not specific enough gives no length of time eg per week, per month
 - 2. Answers should be specific numbers
 - 3. Does not give box for "not at all"
 - (b) How many times, on average, do you go to the cinema each month?

none	1 - 2	3 - 4	More than 4

25



Put compass point on B and draw arcs on the lines as shown. Put compass point on each arc in turn and draw arcs between the 2 lines so that they make a cross as shown. Draw in line bisecting angle.



26

Angles of triangle add to
$$180^{\circ}$$

So $2x + 3x + x + 30^{\circ} = 180^{\circ}$
 $\Rightarrow 6x + 30^{\circ} = 180^{\circ}$

$$\Rightarrow$$
 6x = 150°

$$\Rightarrow$$
 x = 25°