Set A: Test 3

There are 8 questions in this test. Give yourself 10 minutes to answer them all.

Join the numbers on the left to their value when rounded to **1 decimal place**. **16.245 16.3**

10

1.

2.

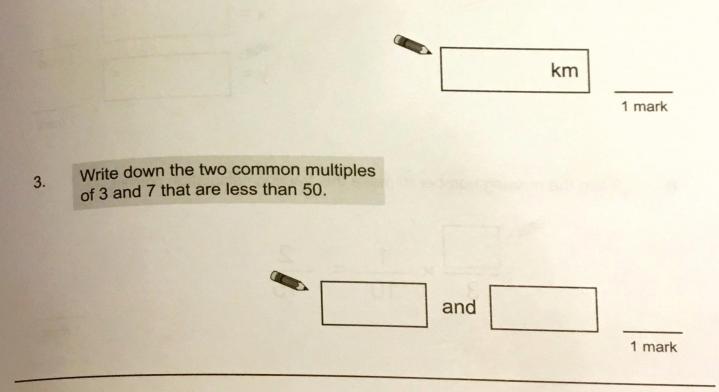
16.31	16.2
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15.88 15.9

1 mark

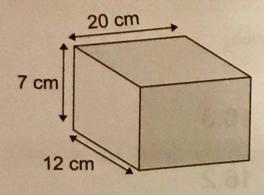
Rosa goes karting with friends. The karting track is 500 m long.

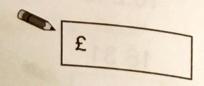
If she goes around the track nine times, how many kilometres will she have travelled?



4. Rosa is posting a box. It costs £3.00 to post a box with a volume greater than 1500 cm³, otherwise it costs £2.00.

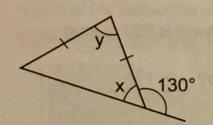
How much would it cost Rosa to post the box below?

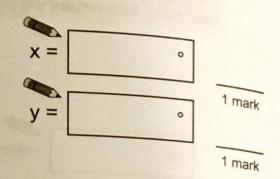




1 mark

5. Work out the size of angles x and y in the isosceles triangle below.

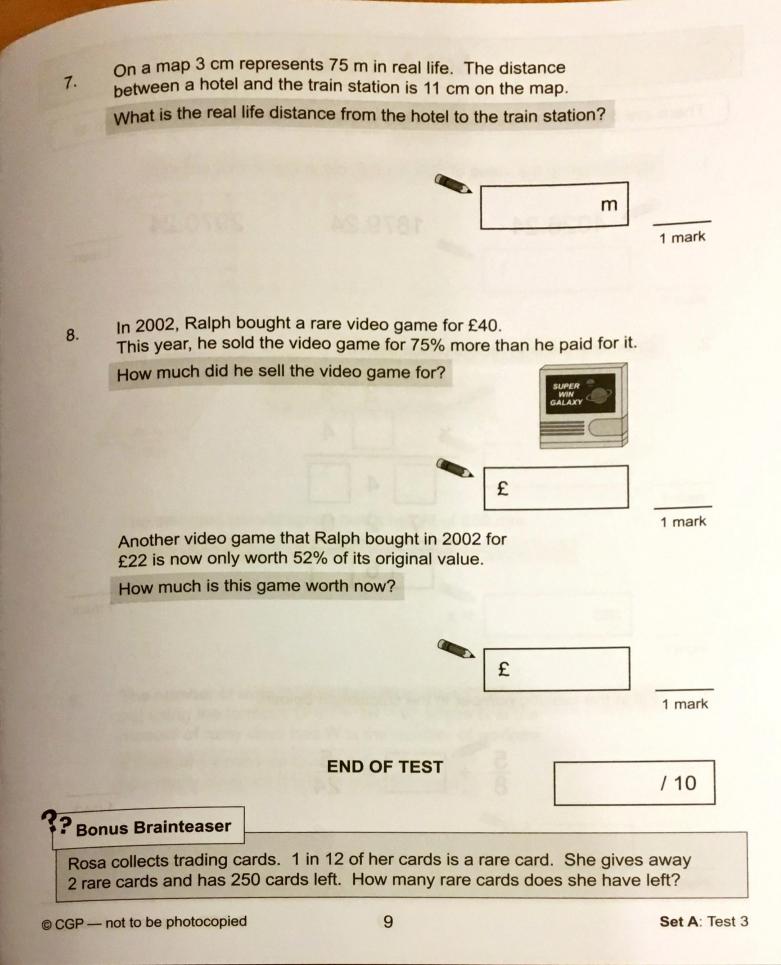




6. Fill in the missing number to make this fraction calculation correct.

$$\frac{1}{3} \times \frac{1}{10} = \frac{2}{15}$$

1 mark



t)

= 24 264

g) tors. ch sector

12 pupils

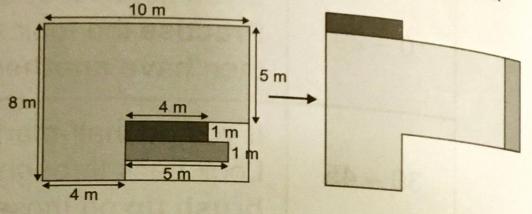
gets bigger

Perimeter = 9 + 4 + 1 + 7 + 5 + 7 + 3 + 4 = 40 mArea = $(9 \times 4) + (7 \times 5) = 36 + 35 = 71 \text{ m}^2$ (1 mark for correct answer) **BONUS BRAINTEASER**

3 m 7 m

4 m

He would need to cut the carpet into at least 3 pieces. E.g. If he cut the carpet up as shown on the left and repositioned the pieces as shown



Test 3 – pages 7-9

1.

correct)

16.3 16.245 16.2 16.31

15.88 -15.9(1 mark for all lines correct)

500 × 9 = 4500 m and 4500 ÷ 1000 = 4.5 km 2. (1 mark for correct answer)

21 and 42 3. (1 mark for both correct)

angle)

wer)

Answe

 4. Volume = L × W × H = 12 × 20 × 7 = 1680 cm³. 1680 cm³ is greater than 1500 cm³ so it would cost £3.00 to post the box. (1 mark for correct answer) 	4.
5. Angles on a straight line add up to 180° . So x = $180^{\circ} - 130^{\circ} = 50^{\circ}$ (1 mark for correct answer)	
Angles in a triangle add up to 180° and it is an isosceles triangle so there are two 50° angles.	
(1 mark for correct answer)	
6. $\frac{4}{3} \times \frac{1}{10} = \frac{4}{30} = \frac{2}{15}$ (1 mark)	5
7. $3 \text{ cm} = 75 \text{ m}$, so $1 \text{ cm} = 75 \div 3 = 25 \text{ m}$ $11 \text{ cm} = 11 \times 25 = 275 \text{ m}$	
(1 mark for correct answer) 8. 25% of £40 = 40 ÷ 4 = £10 8. 25% of £40 = 10 × 2 = £20	6
8. 25% of £40 = 10 × 3 = £30 So he sold the game for £40 + £30 = £70	7
(1 mark for correct answer)	
$50\% \text{ of } \pounds 22 = 22 \div 2 = \pounds 11$	
$1\% \text{ of } \pounds 22 = 22 \div 100 = \pounds 0.22$	8
52% of £22 = $11 + 0.22 + 0.22 = £11.44$	
(1 mark for correct answer)	
BONUS BRAINTEASER	
She had $250 + 2 = 252$ cards in total.	
1 in 12 are rare cards, so do 252 ÷ 12.	
$\frac{21}{122^{2}5^{1}2}$	
She had 21 rare cards but she gave 2 away	
so she now has $21 - 2 = 19$ rare cards.	P.S.
so she now has 21 - 2 - 19 rate carus.	