## **Assessment Test 5: Measures**

Nan	ne:						
Addition [see Worksheet 28] Give your answers in metres.							
1	4 m 30 cm + 3 m 87 cm		2	3 km 80 m + 2 km 42 m			
3	7 m 25 cm + 325 cm		4	1 km 70 m + 327 m			
5	3 km 827 m + 2 km 428 m	n	6	82 cm + 38 cm + 1 m 2 cm			
Subtraction [see Worksheet 29] Give your answers in centilitres.							
7	2 cl 8 ml + 3 cl 5 ml		8	4 I 328 ml + 1 I 78 ml			
9	1   328 ml + 2   68 ml		10	5 cl 3 ml + 32 ml			
11	1   7 cl + 2   38 cl		12	2   3 cl + 1   4 ml			
Multiplication [see Worksheet 30]							
13	2 m 6 cm x 8		14	3 km 28 m x 7			
15	3 kg 273 g x 5		16	2 t 38 kg x 9			
17	3   73 c  x 4		18	2 I 45 ml x 3			
Division [see Worksheet 31]  Give your answers correct to the nearest metre.  19 3 km 88 m ÷ 7							
Give	e your answers correct to th 8 kg 47 g ÷ 7	ne nearest gr	am. 22	3 kg 385 g ÷ 6			
Give 23	e your answers correct to th 6 I 287 ml ÷ 8	ne nearest m	illilitre 24	e. 15 I 326 ml ÷ 7			
Problems [see Worksheet 32]							
25	A barrel contains 37.52 litres of wine. How many 20 centilitre glasses can be filled from the barrel?						
26	A lorry can carry 7 tonnes 380 kilograms. How many 200 kilogram packing cases can be carried?						
27	A building is 28 m 72 cm tall. A flagstick, height 3 m 36 cm, is put on top. What is the total height of the building and flagstick?						
28	A bath contains 86 litres of water. Six containers, each with a capacity of 820 ml, are filled from the bath. How much water remains in the bath?						
29	A lorry carries 6.8 tonnes of sand. 900 kilograms is removed. How much sand remains in the lorry?						
30 A plank of wood is 5 m 7 cm long. 83 cm is cut off. How much wood is left?							
					Final total		

## **Percentages**

10% means 
$$\frac{10}{100}$$
 or  $\frac{1}{10}$ 

We can find  $\frac{1}{10}$  by dividing by 10

**Example 1** 10% of 30

**Example 2** 10% of 28

**Example 3** 30% of 60

**Example 4** 5% of 40

Example 5 Increase 50 by 20%

First find 10% 5
Therefore 20% 10
Increase means add
$$50 + 10 = 60$$

Example 6 Decrease 70 by 40%

First find 10% 7
Therefore 40% 28
Decrease means subtract
$$70 - 28 = 42$$

## Measures: Division

Give the answer correct to the nearest millimetre.

- 1 16 cm 7 mm ÷ 3
- 3 5 cm 8 mm ÷ 8
- 5 12 cm 3 mm ÷ 4

- 2 4 cm 3 mm ÷ 5
- 4 3 m ÷ 9
- 6 8 cm ÷ 7

Give the answer correct to the nearest centimetre.

- 7 3 m 18 cm ÷ 7
- 9 2 m 23 cm ÷ 5
- $11 \quad 3 \text{ m} \div 5$

- 8 2 m 6 cm ÷ 6
- 10 4 m 82 cm ÷ 3
- 12 7 m ÷ 6

Give the answer correct to the nearest metre.

- 13 6 km 327 m ÷ 4
- 15 8 k 43 m ÷ 8
- 17 4 km ÷ 6

- 14 2 km 327 m ÷ 3
- 16 6 km 8 m ÷ 6
- 18 27 km ÷ 7

Give the answer correct to the nearest gram.

- 19  $2 \text{ kg } 8 \text{ g} \div 3$
- 21  $3 \text{ kg } 17 \text{ g} \div 7$
- 23  $5 \text{ kg} \div 3$

- 20 4 kg 283 g ÷ 7
- 22 6 kg 381 g ÷ 4
- 24 2 kg ÷ 7

Give the answer correct to the nearest kilogram.

- 25 4 t 271 kg ÷ 4
- 27 3 t 17 kg ÷ 8
- 29 21 t ÷ 9

- 26 3 t 871 kg ÷ 3
- 28 6 t 38 kg ÷ 7
- $30 \ 3 \ t \div 7$

Give the answer correct to the nearest millimetre.

- 31 1 | 397 ml ÷ 8
- 33 6 I 12 ml ÷ 5
- 35 7 I ÷ 6

- 32 1 | 7 ml ÷ 6
- 34 2 I 328 ml ÷ 8
- 36 3 I ÷ 7

Give the answer correct to the nearest centilitre.

- 37 2 I 37 cl ÷ 8
- 39 4 I 7 cl ÷ 4
- 41 9 I ÷ 6

- 38 1 | 29 cl ÷ 7
- 40 6 I 27 cl ÷ 8
- 42 13 I ÷ 3

## Intermediate Level Test

- 1 a Estimate the cost of 403 chairs at £29.95 each.
  - b Estimate the value of  $\sqrt{3.99 \times 4.99}$ 0.0098
- 2 A hall has 32 rows of chairs with 27 chairs in each row.
  - a How many chairs are in the hall?
  - b If 48 chairs are put in each row, how many rows will be needed?
- 3 This is a recipe for soup for six people. Complete the recipe for 15 people

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	Water	ml
	Carrots	
	Salt	g

Water	1800 ml
Carrots	4
Salt	8 g

- 4 324 pupils out of 600 passed an examination. What was the percentage pass rate?
- What are the next two numbers in this sequence: 1, 3, 9, 27, 81
- 6 Write 360 as a product of primes.
- 7 a = -3 b = -4 c = 12

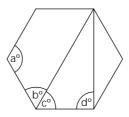
What is the value of:

- a a + b
- b c÷a
- c a --c
- d abc
- 8 Solve 8x + 5 = 2(2x 9)
- 9 Solve the simultaneous equations:

$$3x - 2y = -18$$

$$2x - 5y = -23$$

10 This is a regular hexagon:



What is the size of angles a, b, c and d?