Functional Skills Maths Level 2 | Modelled Paper | Non-Calculator 2

1. Write 2.71828 correct to 3 decimal places.

2.718

2. Here is a formula

$P = 3T^2$

Work out the value of P when T = 10.

$P = 3 (10^2)$
$P = 3 (10 \times 10)$
$P = 3 \times 100$
$P = 300$

3. Lizzie buys 3 clocks for a total cost of £50 at a car boot sale.

She sells 2 of the clocks for £22 each and the other clock for £20.

Lizzie thinks she has made a profit of over 30% of the cost of the clocks.

Is Lizzie correct?

Show why you think this.

Find 30%
30 ÷ 100 x 50 = 15
Find total selling
2 x 22 + 20 = 64
Find profit
64 – 50 = 14
No, she made £14 profit and 30% is £15

4. Bill is a builder.

On Monday he made mortar mix.

He used 24kg of sand and 5kg of cement.

On Tuesday Bill will make the same type of mortar mix.

He will use 36kg of sand.

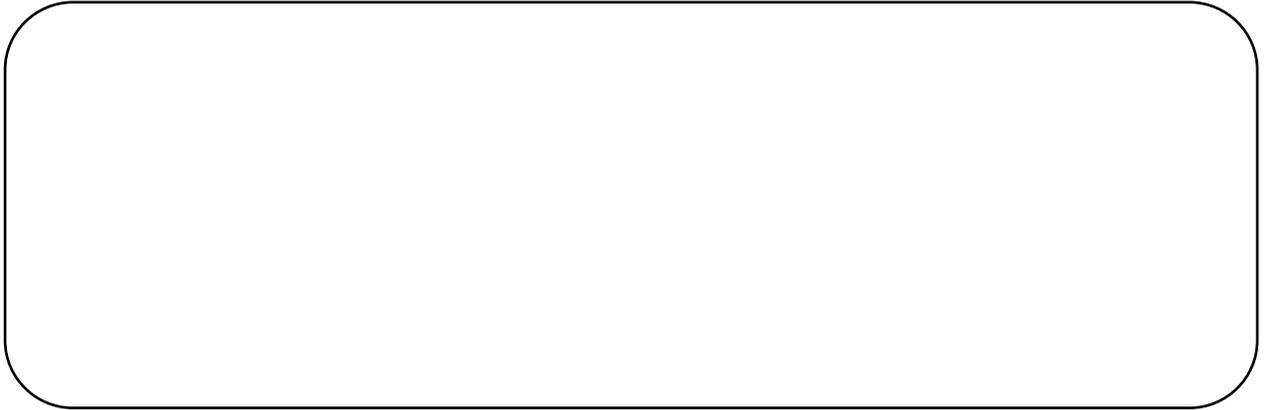How much cement does he need to make the same kind of mortar mix?

36 ÷ 24 = 1.5

5 x 1.5 = 7.5

Needs 7.5kg of cement

Functional Skills Maths Level 2 | Shadow Paper | Non-Calculator 2

1. Write 3.84634 correct to three decimal places.

2. Here is a formula
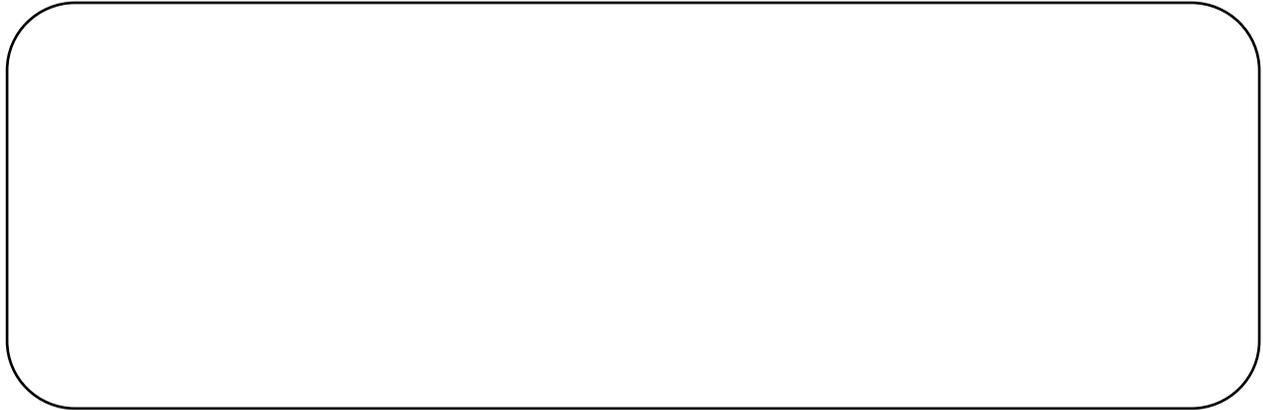
$P = 5T^2$

Work out the value of P when T = 5.

3. Lizzie buys 3 clocks for a total cost of £50 at a car boot sale.

She sells 2 of the clocks for £25 each and the other clock for £22.

Lizzie thinks she has made a profit of over 40% of the cost of the clocks.

Is Lizzie correct?

Show why you think this.

4. Bill is a builder.

On Monday he made mortar mix.

He used 24kg of sand and 7.5kg of cement.

On Tuesday Bill will make the same type of mortar mix.

He will use 48kg of sand.

How much cement does he need to make the same kind of mortar mix?

ANSWERS

1. 3.846

2. 125

3. Yes £22 and £20

4. 15kg