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# Functional Skills Model Solutions

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# Level 2

## Information for centres and learners

- The duration of this examination is **40 MINUTES**. The examination consists of **7 QUESTIONS** and is worth **17 MARKS**.

[illegible][illegible]

Diagram 1: A rectangle divided into 2 equal parts, each labeled  $\frac{1}{2}$ .

Diagram 2: A rectangle divided into 4 equal parts, each labeled  $\frac{1}{4}$ .

Diagram 3: A rectangle divided into 8 equal parts, each labeled  $\frac{1}{8}$ .

[illegible]

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Diagram showing two qubits, each labeled  $D$ .

YES		NO	
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- I removed the examination paper from the sealed envelope.
- I received no help in answering the questions in this examination paper.
- I am the person stated above on this form.
- I will not discuss the content of the examination with anyone else.

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# Non-calculator Test

1

In a multipack of biscuits, there are 12 custard creams, 12 bourbons, 14 shortbread and 15 digestives.

What fraction of the biscuits are custard creams?

Write the answer in the box below.

(1 mark)

$$12 + 12 + 14 + 15 = 53$$

$$\frac{12}{53}$$

Answer:  $\frac{12}{53}$

2

Calculate

$$6^3 - 8 \div 2$$

Write the answer in the box below.

(1 mark)

$$6^3 = 216$$

$$216 - 4 =$$

$$8 \div 2 = 4$$

Answer: 212

**3**

Calculate the median and the mode of this set of weights.

9kg 84kg 51kg 12kg 90kg 27kg 28kg 42kg 51kg

Write the answers in the box below.

(2 marks)

9, 12, 27, 28, 42, 51, 51, 84, 90

Median: 42 kg Mode: 51 kg.

## Scenario A

Charity work

4

You volunteer for a charity that provides clothing.

You are sending a shipment:

- One-sixth of the items are jackets
- Two-fifths of the items are trousers
- the remainder are tops

What fraction of the items are tops?

Show your working out and write the answer in the box below.

(3 marks)

$$\frac{1}{6} + \frac{2}{5} = \frac{5}{30} + \frac{12}{30} = \frac{17}{30}$$

$$1 - \frac{17}{30} = \frac{13}{30}$$

Answer:  $\frac{13}{30}$



5

You are sending another shipment containing 200 pairs of shoes.

There is an equal number of men's, women's, boy's and girl's shoes.

For each, there are 3 different sizes of shoes, small, medium and large, in the ratio 2:2:1.

You pick one pair of shoes out of the shipment at random for a quality check.

**What is the probability that the pair you pick out is a small girl's pair?**

Show your working out and write the answer in the box below.

(4 marks)

$$\frac{200}{4} = 50$$

$$2:2:1 \rightarrow 5 \text{ parts.}$$

$$\frac{50}{5} = 10. \text{ of each } \text{large} \text{ type, } \text{and } \text{small}$$

20 of each small and medium type.

$$\frac{20}{200} = \frac{1}{10}.$$

Answer:  $\frac{1}{10}$ .

## Scenario B

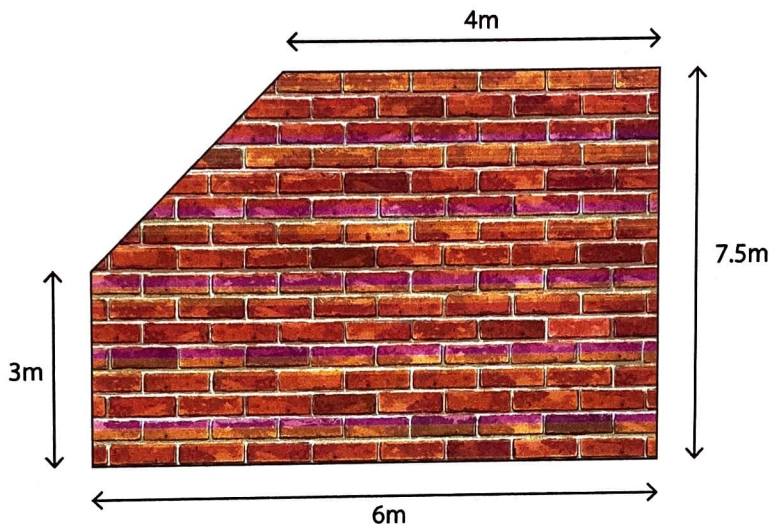
### Advertising

6

You are creating an advert for a billboard on the side of a building.

Below is a diagram of the space you have available on the building.

Diagram not to scale



What is the total area of the space you have available for the advert?

Show your working out and write the answer in the box below.

(4 marks)

Rectangle:  $6\text{m} \times 7.5\text{m} = 45\text{m}^2$ .

Missing triangle:  $\frac{1}{2}((7.5 - 3) \times (6 - 4)) = \frac{1}{2}(4.5 \times 2\text{m}) = 9\text{m}^2 \times \frac{1}{2} = 4.5\text{m}^2$ .

$45 - 4.5 =$

Answer: 40.5  $\text{m}^2$

**7**

The company selling the billboard is offering a discount.

The regular price of the billboard is £620 per month.

They are offering a discount of 12.5% from the regular price.

**What is the new monthly cost?**

Show your working out and write the answer in the box below.

**(2 marks)**

$12.5\% = 0.125$  → Discounted rate is

$0.875 \times 620 = £542.50$  per month.

Answer: £ 542.50

**END OF ASSESSMENT**