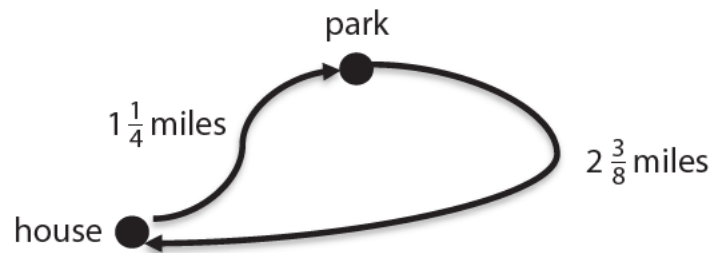


## Functional Skills Maths | Level 2 Non-Calculator Scaffolded Paper 2

1. Ola will run from her house to a local park and back to her house.

She sees this sketch of the route she will take.



What is the total distance of the route Ola will run? Give your answer as a mixed number.

- a. Using a common denominator add  $\frac{1}{4}$  and  $\frac{3}{8}$ .

- b. Add the total miles together.

2. Saima is making a filling for a cake.

Saima mixes jam, sugar and soft cheese in the ration 4 : 1 : 16

She uses 32 oz of soft cheese.

Saima knows that 1 oz is 28.3g

- a. What is 32 divided by 16?

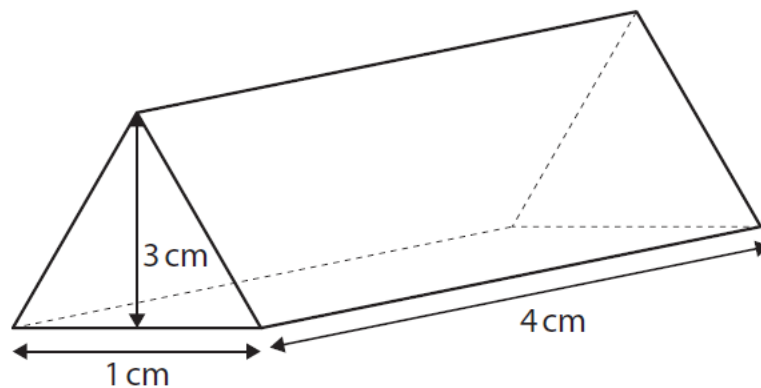
- b. Using your answer for a, how many ounces of jam does Saima need?

- c. How many grams of jam does Saima need?

- d. Use estimation to show a check of your answer.

3. Jack is a jeweller.

He makes a pendant in the shape of a triangular prism as shown in the diagram.



Jack makes the pendant from solid gold.

He uses this formula.

$$V = TL$$

where  $V$  = volume of a triangular prism ( $\text{cm}^3$ )

$T$  = area of the triangular face ( $\text{cm}^2$ )

$L$  = length of the prism (cm)

Jack knows that

- Mass = density  $\times$  volume
- The density of gold is 19 grams per  $\text{cm}^3$
- The cost of 1 gram of gold is £40

Jack sells the pendant for £382 more than the total cost of the gold needed to make the pendant.

a. What is the area of the triangular face?

b. What is the volume of the triangular prism?

c. What is the mass of the triangular prism made of gold?

d. What is the cost of the gold?

e. How much does Jack sell the pendant for?