

# Maths Mastery

## Solve Problems

### Challenge Cards

#### Maths Mastery: Solve Problems

1. Baked beans are sold individually (75c), in packs of 4 (\$2.69) and packs of 6 (\$3.85). What is the cheapest way to buy 12 tins of baked beans?

The 4-pack is on offer at \$2.

How much can be saved in buying 12 tins in packs of 4?

With the offer price, how much is saved per tin buying a 4-pack rather than 4 individual tins?

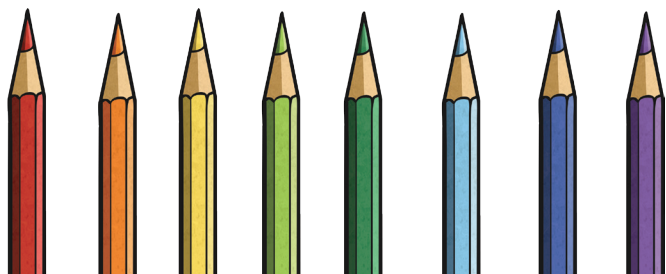


#### Maths Mastery: Solve Problems

2. A large box of pencils costs \$360. In each box there are 100 packets of pencils, each with 12 pencils.

How much does each pencil cost?

What cost would be found by calculating  $\$360 \div 12$ ?



#### Maths Mastery: Solve Problems

3. Write the missing numbers.

$$90 \div \square = 4.5$$

$$\square \times 30 = 1050$$

$$\square + 630 = 1600$$

$$243 - \square = 160$$

$$\square \div 40 = 40$$

$$\square \times 100 = 2800$$

$$19\,800 + \square = 23\,200$$

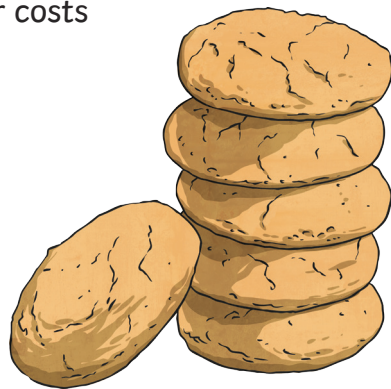
$$17 - \square = -18$$

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4. A teaching assistant makes some biscuits to sell at a school bake sale. The recipe uses 300g flour, 125g butter, 200ml milk to make 12 biscuits.

1.5kg flour costs 80c, 250g butter costs 85c, 2 litres of milk costs \$1.90.

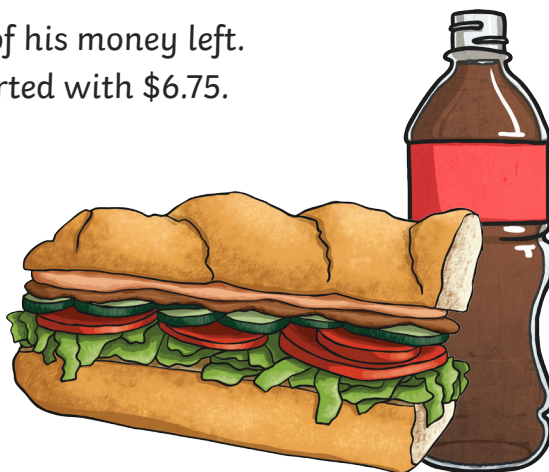
What is the cost of ingredients to make 120 biscuits?



Maths Mastery: Solve Problems

5. Janek had some money. He bought a drink for 85c and a sandwich for \$1.40.

He has two-thirds of his money left. Explain why he started with \$6.75.



# Maths Mastery – Solve Problems Answers

1. Two packs of 6 (\$7.70). 4 packs \$8.07 or individually \$9.

\$2.07

25c

2. 30c, The cost of 1 pencil from each packet. (If the pencils were different colours, it could be the cost of all the red pencils in the large box.)

3.  $90 \div 20 = 4.5$

$35 \times 30 = 1050$

$970 + 630 = 1600$

$243 - 83 = 160$

$1600 \div 40 = 40$

$28 \times 100 = 2800$

$19\ 800 + 3400 = 23\ 200$

$17 - 35 = -18$

4. \$7.75

5. He spent \$2.25. If 2 thirds is left he spent 1 third. He started with  $\$2.25 \times 3 = \$6.75$ .