view multiplication and division decimal numbers

Use appropriate methods to multiply or divide decimals
Estimate and check the answer to a calculation

Find the answers to these calculations.

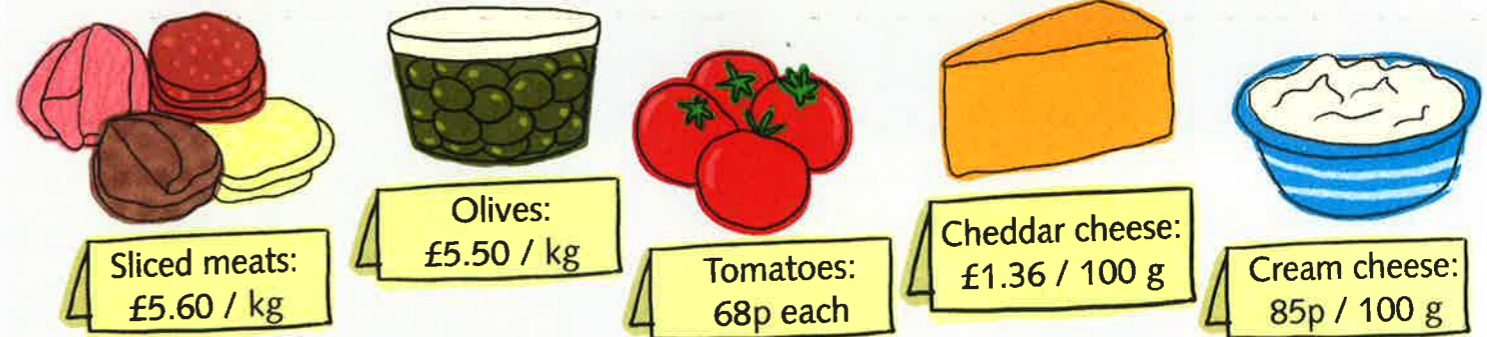| a	52 × 10	b	5·4 × 10	c	630 × 10	d	3·8 × 10
e	6·3 × 100	f	8 × 100	g	3600 ÷ 10	h	24 ÷ 10
i	560 ÷ 100	j	3600 ÷ 100	k	36 × 1000	l	48 000 ÷ 1000

1 Sort these calculations into two groups: those you can calculate using mental methods and those where you need to use a written method.

6 × 0·3	5·46 ÷ 6	4·72 × 3	61·2 ÷ 18
36·8 ÷ 4	0·76 × 5	33·3 × 8	88·8 ÷ 24

53·43 ÷ 13	5·42 × 43	8·2 × 4

2 Work out the answer to each calculation. For the calculations that need a written method, use the most appropriate written method and show your working. Remember to estimate the answer first and then use your estimate to check your answer.

Challenge 3

Answer these word problems. Remember to round answers involving money to 2 decimal places.

Sliced meats: £5.60 / kg
Olives: £5.50 / kg
Tomatoes: 68p each
Cheddar cheese: £1.36 / 100 g
Cream cheese: 85p / 100 g

1 Joseph makes his lunch for the working week (5 days). He buys 375 g sliced meat, 240 g cream cheese and 5 tomatoes.

   i How much does he spend in total?

   ii On average, how much does he spend per day?

2 William buys his lunch every day, Monday to Friday. He buys a 320 g tub of olives and 1 tomato per day. How much does he spend per week?

3 Use the information from Questions 1 and 2 to answer these questions.

   i Who spends the most on their lunch per day, Joseph or William?

   ii What is the difference in the amount they each spend per day?

   iii What is the difference in the amount they each spend per week?

4 If you bought 5 tomatoes and 500 g of each other item, how much change would you receive from £20?

5 The delicatessen uses 10 g each of sliced meat, Cheddar cheese, cream cheese and olives as filling on one of its sandwiches. Approximately how much do the fillings cost per sandwich?

6 Ron has £5 to spend on tomatoes. How many tomatoes can he buy?

7 A meat, Cheddar cheese and tomato sandwich costs £3.85. How many sandwiches can be bought for £20?

8 The delicatessen cuts each tomato into 5 slices. If it charged customers per slice, approximately how much would each slice cost?