Multiply decimals by integers

1 Use place value counters to solve the calculations.

a) 3.2 × 3 = ☐

Ones	Tenths
1 1 1	0.1 0.1
1 1 1	0.1 0.1
1 1 1	0.1 0.1

b) 4.6 × 2 = ☐

Ones	Tenths
1 1 1 1	0.1 0.1 0.1 0.1 0.1 0.1
1 1 1 1	0.1 0.1 0.1 0.1 0.1 0.1

2 Solve the multiplication. Draw your answer.

12.2 × 3 = ☐

Tens	Ones	Tenths

3 Nijah uses long multiplication to solve 3.72 × 3

		3	. 7	2	
	×			3	
		0	. 0	6	
		2	. 1	0	
		9	. 0	0	
	1	1	. 1	6	

Use long multiplication to work out the calculations.

a)

		4	. 8	6	
	×			4	

b)

		2	. 0	9	
	×			6	

4 Work out the multiplications.

a) 5.2 × 4 = ☐

b) 14.3 × 3 = ☐

c) 6 × 9.1 = ☐

d) ☐ = 2.34 × 3

e) 11.505 × 4 = ☐

f) 9.602 × 6 = ☐

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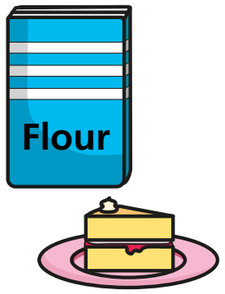
5 0.25 kg of flour is needed to make one cake.

How much flour is needed to make four cakes?



6 Work out the multiplications.

a) 7.2 × 2 = ☐

7.2 × 4 = ☐

14.4 × 4 = ☐

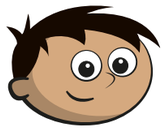
7.2 × 8 = ☐

b) ☐ = 3.45 × 3

☐ = 34.5 × 3

☐ = 345 × 3

7 Amir is solving 3.4 × 4



To solve this, I did 34 × 4, which was 136
Then I multiplied my answer by 10 to get an answer of 1,360

Do you agree with Amir? _____

Explain why.

_____

_____

_____

8 Use the digits 1, 2, 3 and 4 once each to create a calculation.

1	2	3	4

☐ . ☐ ☐ × ☐

a) How many different products can you make?

b) What is the greatest possible product?

☐

c) What is the smallest possible product?

☐

d) What is the product closest to 12?

☐

Compare answers with a partner.

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