

Multiply decimals by integers



1 Use place value counters to solve the calculations.

a) $3.2 \times 3 =$

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

b) $4.6 \times 2 =$

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.

$12.2 \times 3 =$

Tens	Ones	Tenths

3 Nijah uses long multiplication to solve 3.72×3

		3	·	7	2
	x				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
	x				4

b)

		2	·	0	9
	x				6

4 Work out the multiplications.

a) $5.2 \times 4 =$

d) $= 2.34 \times 3$

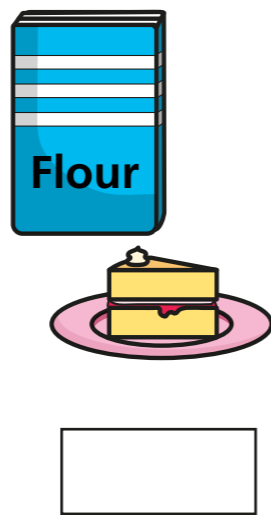
b) $14.3 \times 3 =$

e) $11.505 \times 4 =$

c) $6 \times 9.1 =$

f) $9.602 \times 6 =$

- 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) $7.2 \times 2 =$

$7.2 \times 4 =$

$14.4 \times 4 =$

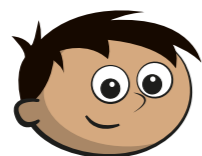
$7.2 \times 8 =$

b) $= 3.45 \times 3$

$= 34.5 \times 3$

$= 345 \times 3$

- 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
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- 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.

