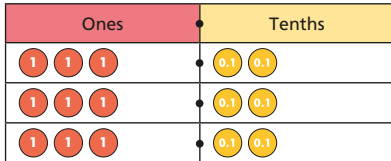


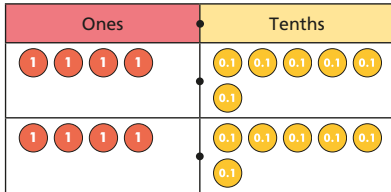
Multiply decimals by integers

1 Use place value counters to solve the calculations.

a) $3.2 \times 3 = \boxed{9.6}$



b) $4.6 \times 2 = \boxed{9.2}$



2 $12.2 \times 3 = \boxed{36.6}$



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 | |
| | | 0 | 2 | 4 | |
| | | 3 | 2 | 0 | |
| | | 1 | 6 | 0 | |
| | | 1 | 9 | 4 | 4 |
| | | | | | |
| | | | | | |
| | | | | | |

b)

| | | | | | |
|--|---|---|---|---|---|
| | | | | | |
| | | 2 | 0 | 9 | |
| | x | | | 6 | |
| | | 0 | 5 | 4 | |
| | | 0 | 6 | 0 | |
| | | 1 | 2 | 0 | 0 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

4 Work out the multiplications.

a) $5.2 \times 4 = \boxed{20.8}$

d) $\boxed{7.02} = 2.34 \times 3$

b) $14.3 \times 3 = \boxed{42.9}$

e) $11.505 \times 4 = \boxed{46.02}$

c) $6 \times 9.1 = \boxed{54.6}$

f) $9.602 \times 6 = \boxed{57.612}$

- 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) $7.2 \times 2 = 14.4$

$7.2 \times 4 = 28.8$

$14.4 \times 4 = 57.6$

$7.2 \times 8 = 57.6$

b) $10.35 = 3.45 \times 3$

$103.5 = 34.5 \times 3$

$1035 = 345 \times 3$

- 7 Amir is solving 3.4×4



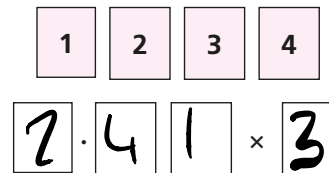
To solve this, I did 34×4 , which was 136. Then I multiplied my answer by 10 to get an answer of 1,360.

Do you agree with Amir? No

Explain why.

Because he would have to divide by 10 to get 13.6

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



- a) How many different products can you make?

Loads

- b) What is the greatest possible product?

12.84

- c) What is the smallest possible product?

7.34

- d) What is the product closest to 12?

17.36

Compare answers with a partner.

