## Multiples of 10, 100 and 1,000

1
Mo is multiplying numbers by 20

a) Use Mo's method to complete the multiplication sentences.

$$
\begin{aligned}
& 7 \times 20=140 \\
& 12 \times 20=240 \\
& 20 \times 134=2680
\end{aligned}
$$

b) Would you get the same answer if you multiplied by 10 first and then by 2? Yes
Write an example.
$7 \times 2 \times 10=14 \times 10=140$
$7 \times 10 \times 2=70 \times 2=140$

3 Complete the multiplication sentences.
Show all the steps in your thinking.
a) $7 \times 500=3,500$
b) $6,000 \times 8=$

c) $300 \times 90=27,000$
d) $500 \times 300=$

(4) Complete the calculations.
a) $300 \times$ $\square$
d) $300 \times 90=27,000$
b) $6,000 \times$ $\square$ $=18,000$
e) $500 \times 60=30,000$
c) $700 \times$ $\square$ 40 $=28,000$

Use this fact to solve the calculations.
a) $42 \times 30=$ $\square$
c) $300 \times 42=$ $\square$
b) $420 \times 3=$ $\square$

6 Here are two methods to solve $16 \times 50$

## Method 1

| $16 \times 10 \times 5$ | $16 \times 5 \times 10$ |
| :--- | :--- |
| $=160 \times 5$ | $=80 \times 10$ |
| $=800$ | $=800$ |

a) What is the same about the methods?

What is different?
b) What other method could you use to multiply by 50? Show your method.
e.g. $16 \times 100 \div 2=1,600 \div 2=800$
c) Share your method with a partner.

7 Jack and Mo are calculating $3,500 \div 70$

| Jack's workings | Mo's workings |
| :---: | :---: |
| $3,500 \div 10=350$ | $3,500 \div 10=350$ |
| $350 \times 7=2,450$ | $350 \div 7=50$ |

a) Whose workings are correct? $\qquad$
b) What mistake has the other person made?

8 Complete the division diagrams


Complete the division sentences.
c)

d) $72,000 \div 9,000=8$

$$
72,000 \div 900=80
$$

$$
72,000 \div 90=800
$$

(9) Match the calculations to the answers.

One has been done for you.

(10) The answer is 400

What could the question be?
Write 4 division and 4 multiplication questions.
Ask a partner to check your questions.

