

WALT: To be able to use the distributive law to multiply a two-digit number by 6,7 or 9.

Vocabulary:

Multiple

Distributive law

Place value

Hundred

Tens

Ones

Two-digit

One-digit number

product

Do it: distributive law

Example:

$$26 \times 7$$

Can be far too difficult to work out mentally, so we can use the distributive law to break this calculation into parts and then calculate:

Now add those answers (or products) together using column addition

$$20 \times 7 = 140$$

$$6 \times 7 = 42$$

$$140 + 42 = 182$$

Do it: your turn

Calculate these calculations using the distribution law

$$22 \times 7 =$$

$$32 \times 6 =$$

$$42 \times 9 =$$

$$15 \times 7 =$$

Do it: your turn

$$22 \times 7 =$$

$$20 \times 7 = 140$$

$$2 \times 7 = 14$$

$$140 + 14 = 154$$

$$32 \times 6 =$$

$$30 \times 6 = 180$$

$$2 \times 6 = 12$$

$$180 + 12 = 192$$

$$42 \times 9 =$$

$$40 \times 9 = 360$$

$$2 \times 9 = 18$$

$$360 + 18 = 378$$

$$15 \times 7 =$$

$$10 \times 7 = 70$$

$$5 \times 7 = 35$$

$$70 + 35 = 105$$

Variation

$$\underline{\hspace{2cm}} = 24 \times 7$$

$$14 \times \underline{\hspace{2cm}} = 84$$

Secure it

Coco thinks

$$\begin{array}{r} 42 \\ \times 7 \\ \hline 284 \end{array}$$

Explain why she is incorrect. Use the word 'because' in your answer.

Secure it

Coco is incorrect because she has not carried the one when multiplying 2 and 7 together to make 14 to the tens column to add and make 9.

The answer should be 294.

Deepen it

Always/Sometimes/Never
True

The product of a 2-digit
number and a 1-digit
number is a 3-digit number.

Hint: product means the answer. You will be
multiplying for this not adding.