

Warm-Up Challenge

Week 7 – Home Learning

Flashback 4

Year 5 | Week 7 | Day 3



1) Work out $4\frac{1}{5} + 2\frac{3}{20}$

2) Find the sum of $\frac{5}{8}$ and $\frac{1}{4}$

3) Fill in the missing number $\frac{\square}{20} = \frac{4}{5}$

4) Round 474 to the nearest ten.

Long multiplication

Solve 54×32 .

First, multiply 4×2 .

1.

$$\begin{array}{r} 54 \\ \times 32 \\ \hline 8 \end{array}$$

Multiply five 10s $\times 2$.

2.

$$\begin{array}{r} 54 \\ \times 32 \\ \hline \square 8 \end{array}$$

The 2 is in
the 1s column.

Long multiplication

Now multiply 4×3 tens. Multiply $5 \text{ tens} \times 3$ tens.

3.

$$\begin{array}{r} ^1 54 \\ \times 32 \\ \hline 108 \\ 20 \end{array}$$

4.

$$\begin{array}{r} ^1 54 \\ \times 32 \\ \hline 108 \\ \boxed{} 20 \end{array}$$

The 3 is in the
10s column.

Teaching Input:

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Long multiplication

Then add the products.

5.

$$\begin{array}{r} 154 \\ \times 32 \\ \hline 108 \\ 1620 \\ \hline 1728 \end{array}$$

Add
 $108 + 1620$

So, $54 \times 32 =$

Long multiplication

Use long multiplication to solve the problem.


$$\begin{array}{r} 39 \\ \times 13 \\ \hline \end{array}$$

Multiply 9×3 .
Multiply 3 tens $\times 3$.

Multiply 9×1 ten.
Multiply 3 tens $\times 1$ ten.

Then add the products.

So, $39 \times 13 =$

Long multiplication

Solve 623×25 .

First, multiply 3×5

1.

$$\begin{array}{r} 1 \quad 1 \\ 623 \\ \times 25 \\ \hline 5 \end{array}$$

Multiply 2 tens $\times 5$

2.

$$\begin{array}{r} 1 \quad 1 \\ 623 \\ \times 25 \\ \hline 15 \end{array}$$

Multiply 6 hundreds $\times 5$

3.

$$\begin{array}{r} 1 \quad 1 \\ 623 \\ \times 25 \\ \hline \square 15 \end{array}$$

Long multiplication

Now multiply 3 × 2 tens Multiply 2 tens × 2 tens Multiply 6 hundreds × 2 tens

4.

$$\begin{array}{r} 623 \\ \times 25 \\ \hline 3115 \\ 60 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 623 \\ \times 25 \\ \hline 3115 \\ 460 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 623 \\ \times 25 \\ \hline 3115 \\ \boxed{} 460 \\ \hline \end{array}$$

Teaching Input:

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Long multiplication

Then add the products.

7.


$$\begin{array}{r} 623 \\ \times 25 \\ \hline 3115 \\ 12460 \\ \hline 15575 \end{array}$$

Add
 $3115 + 12460$

So, $623 \times 25 =$

Long multiplication

Use long multiplication to solve the problem.


$$\begin{array}{r} 231 \\ \times 24 \\ \hline \end{array}$$

Multiply 1×4

Multiply 3 tens $\times 4$

Multiply 2 hundreds $\times 4$

Multiply 1×2 tens

Multiply 3 tens $\times 2$ tens

Multiply 2 hundreds $\times 2$ tens

So, $231 \times 24 =$

Practice time

1. Use long multiplication to solve the problems.

a)

$$\begin{array}{r} 27 \\ \times 18 \\ \hline \end{array}$$

b)

$$\begin{array}{r} 53 \\ \times 42 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 465 \\ \times 34 \\ \hline \end{array}$$

Independent Activity: *Now grab a pen and paper and see how many questions you can answer*

1 Work out the multiplications.

a) 6×6

6×60

b) 12×8

12×80

c) 32×3

32×30

d) 7×9

7×90

e) 21×4

21×40

f) 48×3

48×30

How did you work out your answers?

2 Fill in the missing numbers.

a)

			4	3	
	x		1	3	
		1	2	9	
		4	3	0	

(43×3)

(43×10)

c)

	x				
		1	0	5	
		4	2	0	

(21×5)

(21×20)

b)

			2	1	
	x		1	6	
		1	2	6	
		2	1	0	

$(\quad \times \quad)$

$(\quad \times \quad)$

Independent Activity: Now grab a pen and paper and see how many questions you can answer

- 3 Brett is calculating 216×23

$$\begin{array}{r} 216 \\ \times 23 \\ \hline 6480 \\ 432 \\ \hline 6912 \end{array}$$

What mistake has Brett made?

What is the correct answer?

- 4 Work out the multiplications.

a) 142×31 b) 337×46 c) 214×53 d) 24×183

- 5 Some children are asked to work out 308×19

a) Which is the best estimate to use to check their answers?

Work out the answer to your estimate.

300×10 300×20 310×20 300×19

b) Explain the reasons for your choice.

c) Here are answers given by three children.

Nijah 28,028

Filip 5,852

Whitney 2,080

From your estimate, who do you think is correct?

d) Work out the correct answer.

e) What mistakes might the others have made?

- 6 A football pitch is 128 m long and 52 m wide.

a) What is the area of the pitch?

b) A field is 25,000 m².

How many football pitches could fit in it?

- 7 Write $>$, $<$ or $=$ to complete each statement.

a) 146×64 164×46

135×53 153×35

b) What do you notice?

Does this always happen?

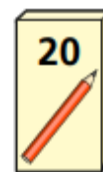
- 8 Miss Rose is ordering some pencils.

She orders 17 of pack A, 14 of pack B and 4 of pack C.

Pack A



Pack B



Pack C



How many pencils does Miss Rose order?

Each pencil costs 16p.

How much does Miss Rose spend on pencils?