RECALL

1) $35 \times 10 =$
2) $0.54 \times 100 =$
3) $1.403 \times 1000 =$
4) $29.02 \times 100 =$
5) $350 \div 10 =$
6) $639 \div 100 =$
7) $803 \div 1000 =$
8) $90.2 \div 10 =$

1) $473 \div 1000 =$
2) $0.036 \times 10 =$
3) $32.5 \div 100 =$
4) $203 \div 1000 =$
5) $102.02 \times 1000 =$
6) $74.83 \div 10 =$
7) $56.54 \div 0.1 =$
8) $742.2 \times 0.1 =$

RECALL ANSWERS

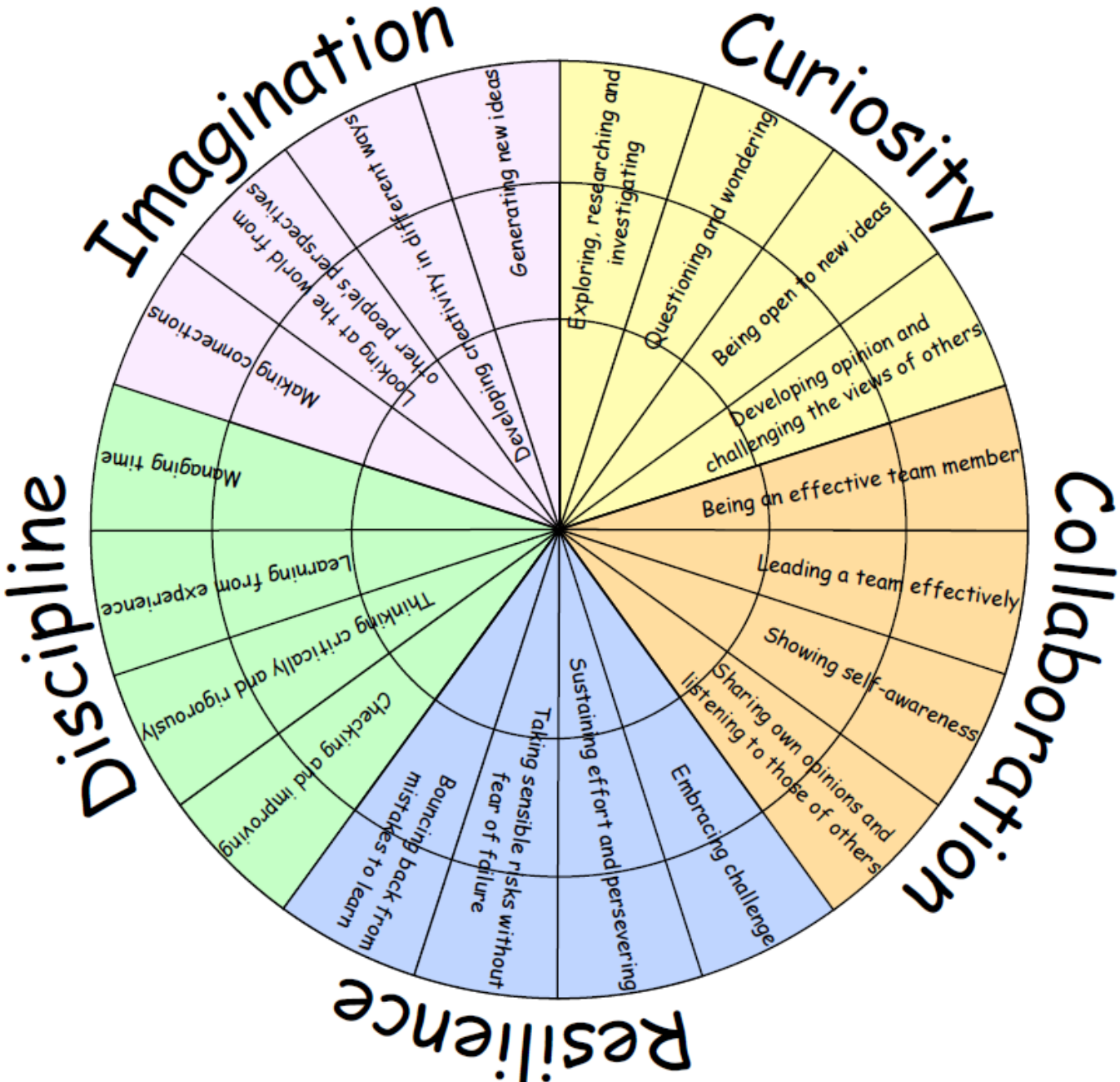
1) 35 x 10 = 350
2) 0.54 x 100 = 54
3) 1.403 x 1000 = 1403
4) 29.02 x 100 = 2902
5) 350 ÷ 10 = 35
6) 639 ÷ 100 = 6.39
7) 803 ÷ 1000 = 0.803
8) 90.2 ÷ 10 = 9.02

1) 473 ÷ 1000 = 0.473
2) 0.036 x 10 = 0.36
3) 32.5 ÷ 100 = 0.325
4) 203 ÷ 1000 = 0.203
5) 102.02 x 1000 = 102020
6) 74.83 ÷ 10 = 7.483
7) 56.54 ÷ 0.1 = 565.4
8) 742.2 x 0.1 = 74.22

I CAN MULTIPLY DECIMALS BY INTEGERS

Multiplication and Division (7viii & 9ii)

LEARNING HABITS?



GUIDED PRACTICE

One can has a volume of 0.32 litres.

1) What is the total volume of the 4 drinks cans?

2) What is the total volume of 40 cans?

How many different ways can you represent these calculations?

INTELLIGENT PRACTICE

Complete these calculations

1) _____ = 21 x 3

2) _____ = 2.1 x 3

3) _____ = 0.21 x 3

What do you notice?

Complete these calculations

1) 4.1 x 2 =

2) 6.3 x 2 =

3) 9.4 x 2 =

What do you notice?

Complete these calculations

1) 7.2 x 2 =

2) 7.2 x 4 =

3) 7.2 x 8 =

What do you notice?

If you are 'stuck', use 1 chilli to help you!

1) 10.8 x 6 =

2) 0.075 x 8 =

3) 12.3 x 1.7 =

INTELLIGENT PRACTICE ANSWERS

Complete these calculations

1) 63 = 21 x 3

2) 6.3 = 2.1 x 3

3) 0.63 = 0.21 x 3

What do you notice?

Complete these calculations

1) 4.1 x 2 = 8.2

2) 6.3 x 2 = 12.6

3) 9.4 x 2 = 18.8

What do you notice?

Complete these calculations

1) 7.2 x 2 = 14.4

2) 7.2 x 4 = 28.8

3) 7.2 x 8 = 57.6

What do you notice?

If you are 'stuck', use 1 chilli to help you!

1) 10.8 x 6 = 64.8

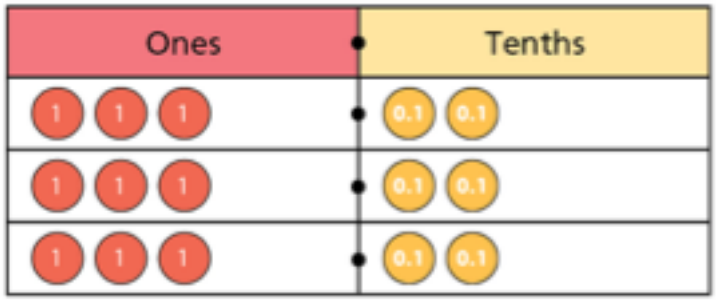
2) 0.075 x 8 = 0.6

3) 12.3 x 1.7 = 20.91

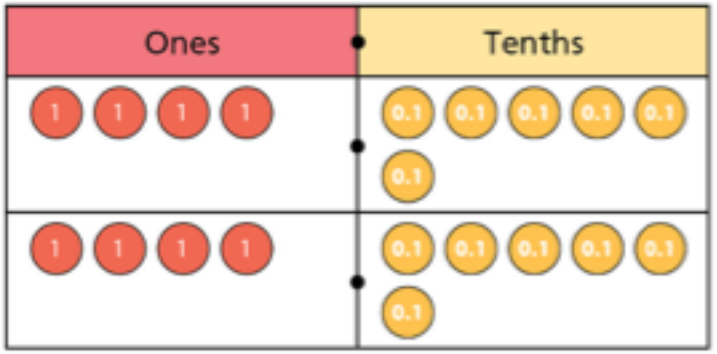
DIVE DEEPER 1

1) Use place value counters to solve the calculations shown.

3.2 x 3 =



4.6 x 2 =



2) Solve the multiplication. Draw your answer.

12.2 x 3 =

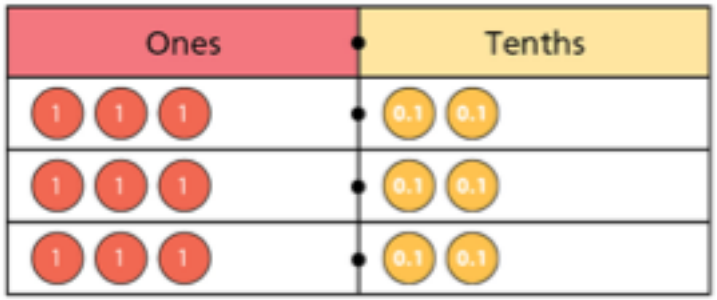
3) Use long multiplication to work out the calculations.

a) 4.86 x 4
b) 2.09 x 6

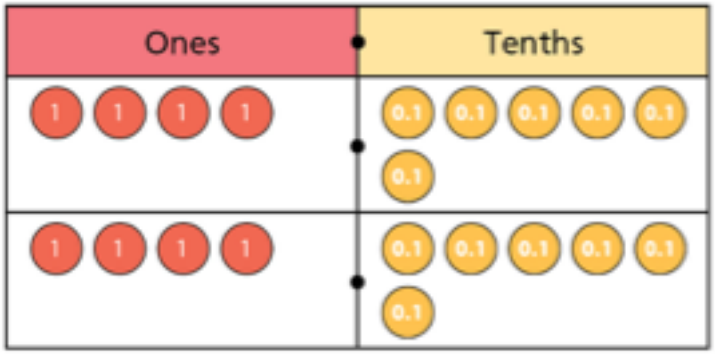
DIVE DEEPER 1ANSWERS

1) Use place value counters to solve the calculations shown.

3.2 x 3 = 9.6



4.6 x 2 = 9.2



2) Solve the multiplication. Draw your answer.

12.2 x 3 = 36.6

3) Use long multiplication to work out the calculations.

a) 4.86 x 4 = 19.44
b) 2.09 x 6 = 12.54

DIVE DEEPER 2

4) Predict which multiplication will give the greatest and the smallest products. Explain why.

12 x 0.3
0.02 x 32
21 x 0.04

Complete each calculation to check.

5) Amir is solving 3.4 x 4

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

Do you agree?
Explain why.

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

___ . ___ ___ x ___

a) How many different products can you make?
b) What is the greatest possible product?

DIVE DEEPER 2 ANSWERS

4) Predict which multiplication will give the greatest and the smallest products. Explain why.

12 x 0.3 = 3.6
0.02 x 32 = 0.64
21 x 0.04 = 0.84

Complete each calculation to check.

5) Amir is solving 3.4 x 4

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

Do you agree? No because he has multiplied by ten rather than dividing by ten to make his answer ten times smaller.

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

___ . ___ ___ x ___

a) How many different products can you make?
b) What is the greatest possible product? 12.84

DIVE DEEPER 3

1) How tall is each fence panel?
2) The panel is 1.2m wide. The whole fence will be made up of 16 panels. How long will the whole fence be?
3) What is the area of one fence panel?
4) What is the total area of the fence?

SELF-ASSESSMENT

- Some will even be able to multiply decimals by decimals and explain how it works
- Some will be able to predict and explain what will happen to the answer
- Most will be able to use long multiplication to answer calculations
- All will be able to use a place value chart to answer multiplying decimals by integers