# 18.1.21

## Arithmetic

1. $\dfrac{3}{4} - \dfrac{2}{8}$

2. $\dfrac{1}{4} + \dfrac{1}{8}$

3. $\dfrac{1}{5} \div 4$

4. $\dfrac{2}{3} \times \dfrac{4}{6}$

5. $\dfrac{3}{4}$ of 24

6. $\dfrac{2}{3}$ of ? = 12

## FB4

**Flashback 4**

Year 6 | Week 2 | Day 3

1) What is $0.6 \times 7$?

2) What is $1.8 \div 10$?

3) Work out $1\dfrac{5}{6} - \dfrac{5}{9}$
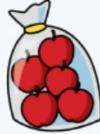
4) Work out 2,791 metres − 1,344 metres

White Rose Maths

# Barvember

## BARVEMBER

**1** Apples are packed into bags of 5

How many bags are needed for 35 apples?

**2** Work out the value of the each symbol.

△ + △ + △ = 36

△ + ● + ● = 26

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# Barvember

## BARVEMBER

**3** Sonja and her mum share some pizza.

Sonja eats $\frac{1}{2}$ of the pizza.

Her mum eats $\frac{1}{10}$ of pizza.

What fraction of the pizza is left?

Sonja
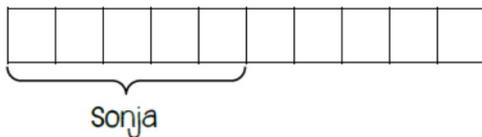
**4** A hat costs £8 more than a scarf and 50% more than a pair of gloves.

The total cost of 2 hats, 3 scarfs and a pair of gloves is £78

How much does a scarf cost?

Hat

Scarf

Gloves

Let's remind ourselves of the division vocabulary.

dividend $24.5 \div 5 = 4.9$ quotient

divisor

Some key vocabulary

$$5 \overline{\smash{)}24.5} = 04.9$$

$+ - \div \times$
$> < =$

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Let's remind ourselves of the division method.

1. How many 5s in 2?  0

$$5 \overline{\smash{)}2^2 4^4.5} = 04.9$$

2. Carry the 2

3. How many 5s in 24? 4 remainder 4

4. Line up the decimal point.

5. How many 5s in 45? 9
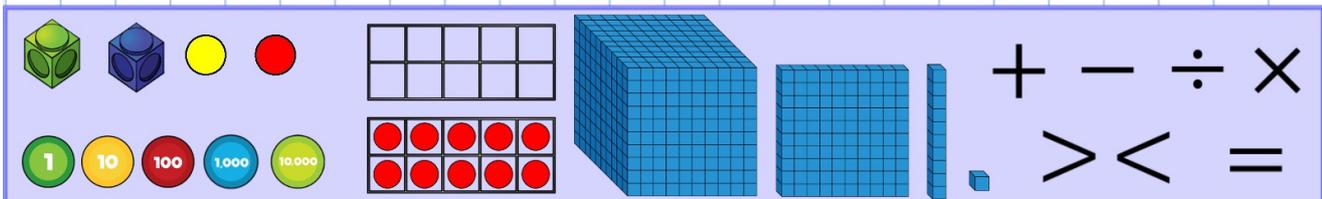
$+ - \div \times$
$> < =$

What if the number that we are dividing (the divisor) isn't a decimal.

$$\begin{array}{r} 05 \\ 5 \overline{)2\,{}^{2}5} \end{array}$$

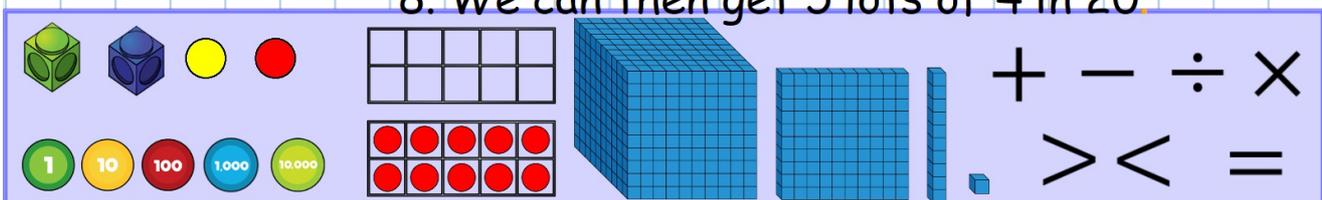In this case there isn't a remainder.

What if there was a remainder and we want to record the answer as a decimal?

$$+ \; - \; \div \; \times$$
$$> \; < \; =$$

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$$\begin{array}{r} 06.75 \\ 4 \overline{)2\,{}^{2}7.{}^{3}0\,{}^{2}0} \end{array}$$

1. There are 0 4s in 2.
2. Carry the 2.
3. There are 6 lots of 4 (=24) in 27.
4. This gives a reaminder of 3 to carry over.
5. We don't have any digits left, but we can add a decimal point and 0s

This is because 27 is the same as 27.00000

We can add as many 0s as we need (after the decimal point)   We must also add a decimal point above the line (for our answer).

6. Carry the 3 (to make 30)
7. We can get 7 lots of 4 in 30 (=28, with remainder of 2.
8. We can then get 5 lots of 4 in 20.

$$+ \; - \; \div \; \times$$
$$> \; < \; =$$

If we find that we still have remainders after 2 decimal places, we can calculate the 3rd decimal place and then see if we need to round up or down.

5,6,7,8,9 Round up

2.378 = 2.38   Because the 3rd digit is 8, we round the previous digit (7) up

15.015 = 15.02   Because the 3rd digit is 5, we round the previous digit (1) up

1,2,3,4 Round down

9.782 = 9.78   Because the 3rd digit is 2, we round the previous digit (8) down (stays the same)

$+ \; - \; \div \; \times$
$> \; < \; =$

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18.1.21     Division with decimal remainders

Complete A, B or C (record up to 2 decimal places)

| A | B | C |
|---|---|---|
| 1.   427 ÷ 3 | 1.   397 ÷ 3 | 1.   4,785 ÷ 6 |
| 2.   814 ÷ 5 | 2.   563 ÷ 4 | 2.   8,592 ÷ 7 |
| 3.   563 ÷ 4 | 3.   2,047 ÷ 5 | 3.   529 ÷ 8 |
| 4.   128 ÷ 3 | 4.   4,967 ÷ 4 | 4.   6,027 ÷ 14 |
| 5.   172 ÷ 5 | 5.   597 ÷ 12 | 5.   999 ÷ 12 |
| 6.   1,027 ÷ 10 | 6.   3,259 ÷ 3 | 6.   3,018 ÷ 15 |
| 7.   875 ÷ 2 | 7.   4,785 ÷ 6 | 7.   670 ÷ 13 |
| 8.   397 ÷ 3 | 8.   8,592 ÷ 7 | 8.   5,701 ÷ 14 |
| 9.   597 ÷ 12 | 9.   529 ÷ 8 | 9.   8,968 ÷ 21 |
| 10. 2,047 ÷ 5 | 10. 6,027 ÷ 14 | 10. 2,222 ÷ 16 |
| 11. 4,967 ÷ 4 | 11. 999 ÷ 12 | 11. 5,101 ÷ 22 |
| 12. 3,259 ÷ 3 | 12. 3,018 ÷ 15 | 12. 187 ÷ 18 |

## Problem

Sometime, Always or Never?

If the number that I divide has 2 decimal places, my answer (the quotient) will have at least 2 decimal places.

Is the statement above, sometimes correct, always correct or never correct? Fully explain your answer.

Vocabulary
- place value
- division
- decimal place
- column

Today we are learning to divide numbers and record the remainders as decimals.

I will be successful if:
- I identify the place value
- I line up the decimal point
- I add the zero in the correct place after the decimal point
- I recognise the number of decimal places
- I know when to round up or down

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18.1.21

Plenary

True or False?

The answer to 6.73 divided by 4, has 2 decimal places.