

Week 7

This week in a nutshell:

As the first week of the half term, students may need access to previously seen material as a confidence booster. The only completely new topic comes in question 4; using mirrors or tracing paper will help students to answer this.

Question 1: Equivalent ratios

Question 2: Simplifying fractions

Question 3: Arithmetic with decimals

Question 4: Lines of symmetry

Question 5: Tables of values

This week's ideas for class discussion include:

Question 1: **Equivalent ratios**

- We talk about equivalence a lot in maths; why do you think it is such an important idea?

Question 2: **Simplifying fractions**

- What's the easiest way to simplify a fraction for you?

Question 3: **Arithmetic with decimals**

- How has your confidence with decimals changed this year?

Question 4: **Lines of symmetry**

- How do you decide where to place the line of symmetry?
- How can you tell if you have found every possible line of symmetry?

Question 5: **Tables of values**

- How else do we use tables in maths?

Week 7: Day 1

- 1) The ratio 2:3 is equivalent to

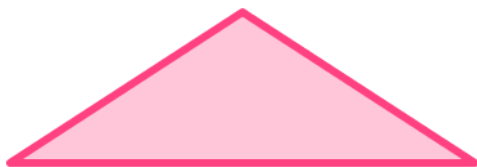
8 : ____

- 2) What is $\frac{14}{16}$ in its simplest form?

- 3) Calculate

$$3.7 \times 6 =$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$y = 3x - 2$$

x	0	2	4
y			

Week 7: Day 1 Answers

- 1) The ratio 2:3 is equivalent to

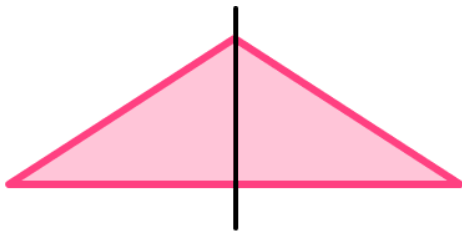
8 : 12

- 2) What is $\frac{14}{16}$ in its simplest form? $\frac{7}{8}$

- 3) Calculate

$$3.7 \times 6 = 22.2$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$y = 3x - 2$$

x	0	2	4
y	-2	4	10

Week 7: Day 2

- 1) The ratio 4:7 is equivalent to

___ : 21

- 2) What is $\frac{4}{6}$ in its simplest form?
-

- 3) Calculate

$$2.8 \times 1.4 =$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$y = 3 - 2x$$

x	0	2	4
y			

Week 7: Day 2 Answers

- 1) The ratio 4:7 is equivalent to

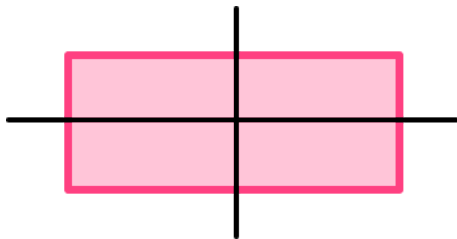
12 : 21

- 2) What is $\frac{4}{6}$ in its simplest form? $\frac{2}{3}$

- 3) Calculate

$$2.8 \times 1.4 = 3.92$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$y = 3 - 2x$$

x	0	2	4
y	3	-1	-5

Week 7: Day 3

- 1) The ratio 5:2 is equivalent to

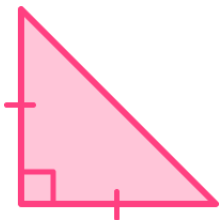
20 : ____

- 2) What is $\frac{24}{28}$ in its simplest form?
-

- 3) Calculate

$$4.2 \div 0.7 =$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$y = \frac{1}{3}x - 2$$

x	-3	0	6
y			

Week 7: Day 3 Answers

- 1) The ratio 5:2 is equivalent to

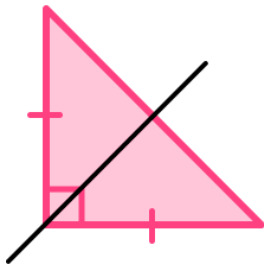
20 : 8

- 2) What is $\frac{24}{28}$ in its simplest form? $\frac{6}{7}$

- 3) Calculate

$$4.2 \div 0.7 = 6$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$y = \frac{1}{3}x - 2$$

x	-3	0	6
y	-3	-2	0

Week 7: Day 4

- 1) The ratio 15 : 6 : 27 is equivalent to

5 : ____ : ____

- 2) What is $\frac{15}{21}$ in its simplest form?
-

- 3) Calculate

$$1.45 \times 3 =$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$2y = 3x - 5$$

x	0	3	7
y			

Week 7: Day 4 Answers

- 1) The ratio 15 : 6 : 27 is equivalent to

$$5 : 2 : 9$$

- 2) What is $\frac{15}{21}$ in its simplest form? $\frac{5}{7}$

- 3) Calculate

$$1.45 \times 3 = 4.35$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$2y = 3x - 5$$

x	0	3	7
y	-2.5	2	8

Week 7: Day 5

- 1) The ratio 2:5:7 is equivalent to

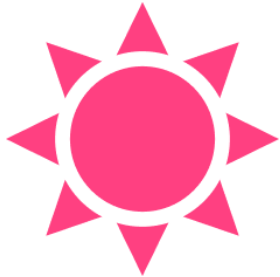
___ : ___ : 21

- 2) What is $\frac{81}{90}$ in its simplest form?

- 3) Calculate

$$13.8 \div 5 =$$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$8 = x + y$$

x	-2	1	4
y			

Week 7: Day 5 Answers

- 1) The ratio 2:5:7 is equivalent to

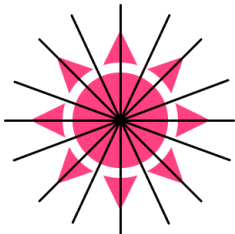
6 : 15 : 21

- 2) What is $\frac{81}{90}$ in its simplest form? $\frac{9}{10}$

- 3) Calculate

$13.8 \div 5 = 2.76$

- 4) Draw the line(s) of symmetry.



- 5) Complete the table of values for the linear relationship

$$8 = x + y$$

x	-2	1	4
y	10	7	4

Do you have KS4 students who need additional support in maths?

Our specialist tutors will help them develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK. Visit thirdspacelearning.com to find out more.