

Week 7

This week in a nutshell:

Here will revisit topics that frequently bring about misconceptions and inconsistencies. Week 1 covers skills and topics that are often the building blocks for their particular branch of maths.

Question 1: Multiples and Factors

Question 2: Multiplying and dividing fractions

Question 3: Negative numbers ($+-x\div$)

Question 4: Area and perimeter

Question 5: Reflection symmetry

There are no suggestions for discussion this half term. As the topics are revision of previously covered material, any conversations should be used to deal with remaining difficulties or misconceptions that arise during the week.

Week 7: Day 1

1) Write down the first 5 multiples of:

a) 7

b) 12

2) Calculate:

a) $\frac{1}{2} \times \frac{1}{3}$

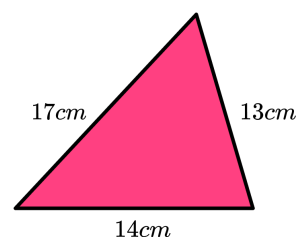
b) $3 \times \frac{3}{4}$

3) Work out:

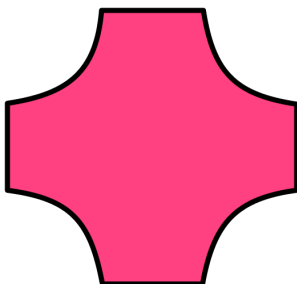
a) $4 - 9$

b) -7×6

4) Calculate the perimeter of this triangle.



5) How many lines of symmetry does this shape have?



Week 7: Day 1 Answers

1) a) Write down the first 5 multiples of 7 = 7, 14, 21, 28, 35

b) Write down the factors of 12 = 12, 24, 36, 48, 60

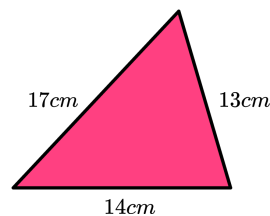
2) a) $\frac{1}{2} \times \frac{1}{3}$
 $= \frac{1}{6}$

b) $3 \times \frac{3}{4}$
 $= \frac{9}{4}$ or $2 \frac{1}{4}$

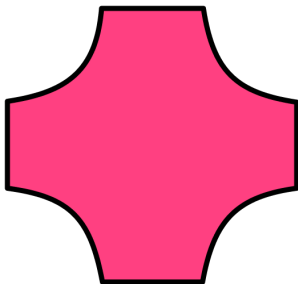
3) a) $4 - 9 = -5$

b) $-7 \times 6 = -42$

4) Calculate the perimeter of this triangle. 44cm



5) How many lines of symmetry does this shape have? 4



Week 7: Day 2

1) List the factors of :

a) 28

b) 48

2) Evaluate:

a) $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$

b) $\frac{1}{6} \div \frac{1}{4}$

3) Determine the value of:

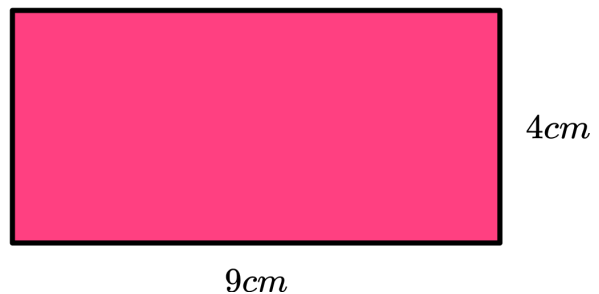
a) $17 - (-5)$

b) $6 \div (-2)$

4) For this rectangle:

a) Perimeter =

b) Area =



5) How many lines of symmetry does this shape have?



Week 7: Day 2 Answers

- 1) a) List the factors of 28

= 1, 2, 4, 7, 14, 28

- b) Write down the factors of 48

= 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

- 2) Calculate

a) $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$
= $\frac{1}{8}$

b) $\frac{1}{6} \div \frac{1}{4}$
= $\frac{4}{6}$ or $\frac{2}{3}$

- 3) Determine the value of:

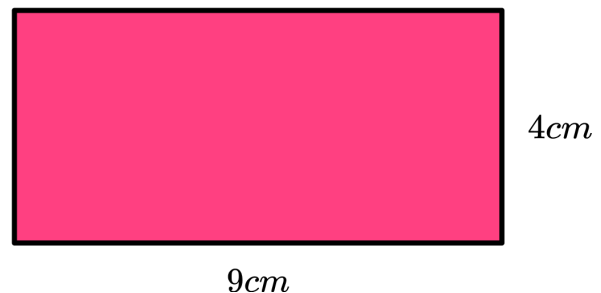
a) $17 - (-5)$
= 22

b) $6 \div (-2)$
= -3

- 4) For this rectangle:

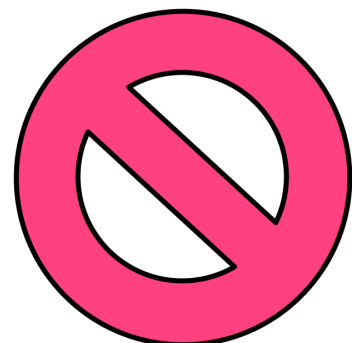
a) Perimeter
= 26cm

b) Area
= 36cm²



- 5) How many lines of symmetry does this shape have?

= 2



Week 7: Day 3

1) Work out the lowest common multiple of 6 and 14:

2) Perform the calculations:

a) $\frac{7}{8} \times \frac{2}{3}$

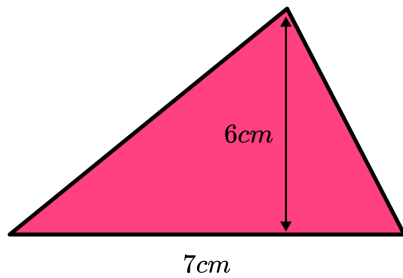
b) $\frac{4}{5} \div \frac{3}{4}$

3) Work out:

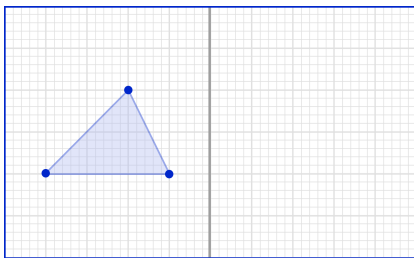
a) $(-22) + (-13)$

b) $-56 \div -8$

4) What is the area of this triangle?



5) Reflect this triangle across the vertical mirror line.



Week 7: Day 3 Answers

1) Work out the lowest common multiple of 6 and 14:

$$= 42$$

2) Perform the calculations:

a) $\frac{7}{8} \times \frac{2}{3}$

$$= \frac{7}{12}$$

b) $\frac{4}{5} \div \frac{3}{4}$

$$= \frac{16}{15} \text{ or } 1 \frac{1}{15}$$

3) Work out:

a) $(-22) + (-13)$

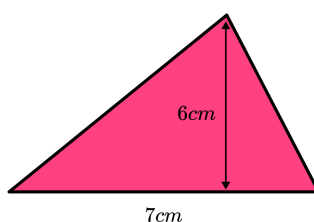
$$= -35$$

b) $-56 \div -8$

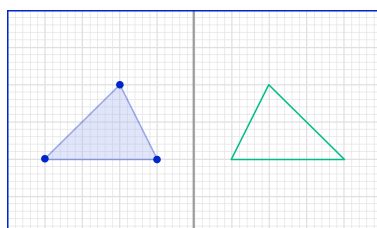
$$= 7$$

4) What is the area of this triangle?

$$= 21\text{cm}^2$$



5) Reflect this triangle across the vertical mirror line.



Week 7: Day 4

1) What is the highest common factor of 24 and 56?

2) Calculate:

a) $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}$

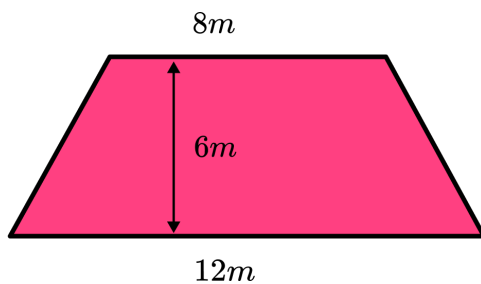
b) $\frac{5}{6} \div \frac{2}{3}$

3) Work out:

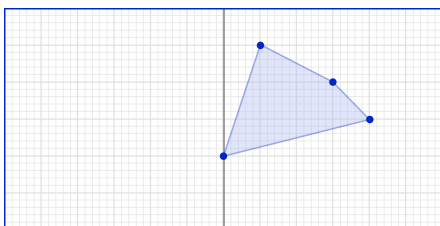
a) $-2 \times -3 \times -4$

b) $56 - (-14) + (-2)$

4) What is the area of this trapezium?



5) Reflect the shape in the line shown.



Week 7: Day 4 Answers

- 1) What is the highest common factor of 24 and 56?

= 8

- 2) Calculate:

a) $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}$

= $\frac{1}{4}$

b) $\frac{5}{6} \div \frac{2}{3}$

= $\frac{15}{12}$ or $\frac{5}{4}$ or $1 \frac{1}{4}$

- 3) Work out:

a) $-2 \times -3 \times -4$

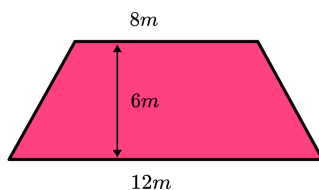
= -24

b) $56 - (-14) + (-2)$

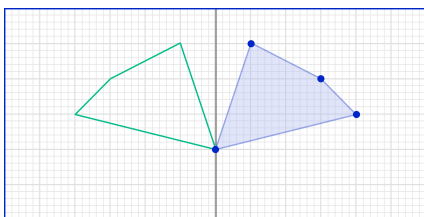
= 68

- 4) What is the area of this trapezium?

= 60m^2



- 5) Reflect the shape in the line shown.



Week 7: Day 5

1) How many factors does the number 81 have?

2) Evaluate:

a) $\frac{3}{7} \times \frac{4}{3} \times \frac{7}{4}$

b) $\frac{3}{5} \div \frac{10}{6}$

3) Calculate:

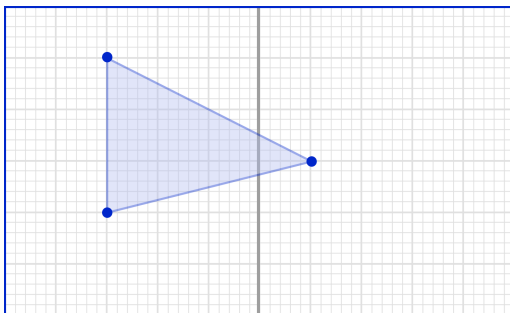
a) $-25 \div (-5)$

b) $-6 - (-6)$

4) The area of this rectangle is 40cm^2 . What is its perimeter?



5) Reflect the shape using the given mirror line.



Week 7: Day 5 Answers

- 1) How many factors does the number 81 have?
= 5

- 2) Evaluate:

a) $\frac{3}{7} \times \frac{4}{3} \times \frac{7}{4}$
= 1

b) $\frac{3}{5} \div \frac{10}{6}$
= $\frac{18}{50}$ or $\frac{9}{25}$

- 3) Calculate:

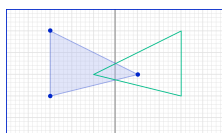
a) $-25 \div (-5)$
= 5

b) $-6 - (-6)$
= 0

- 4) The area of this rectangle is 40cm². What is its perimeter?
= 26cm



- 5) Reflect the shape using the given mirror line.



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.