

## Week 8

### This week in a nutshell:

Although these topics have been seen before, care must be taken as to how the answers should be presented. Remind students to give attention to when a question asks for an answer in a certain format. Question 5 may require some thinking time; giving some students number cards to physically rearrange can be a useful scaffold.

**Question 1:** Lowest common multiple

**Question 2:** Rounding

**Question 3:** Changing the subject

**Question 4:** Probability

**Question 5:** Using number properties

The questions aim to develop and deepen understanding over the week. Due to the necessity of the topics covered this week, there is an emphasis on the interchangeability of command words, and language flexibility. It may be worth taking some extra time this week to make sure your students are developing their mathematical literacy.

### This week's ideas for class discussion include:

Question 1: **Lowest common multiple**

- How do we use the lowest common multiple in maths?

Question 2: **Rounding**

- How and when do we round numbers?
- How do we decide the method or accuracy of rounding?

Question 3: **Changing the subject**

- When might we need to change the subject of a formula?
- Is solving an equation a special case of changing the subject?

Question 4: **Probability**

- Why might a probability be given as a fraction or a decimal?
- Does either approach have an advantage over the other?

Question 5: **Using number properties**

- Are number properties intrinsic or imposed?

## Week 8: Day 1

1) Find the lowest common multiple (LCM) of 8 and 12.

---

2) What is 13.87 rounded to the nearest integer?

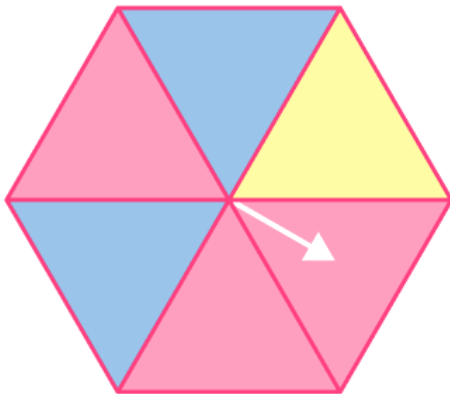
---

3) Make  $g$  the subject:

$$2h - g = f$$

---

4) What is the probability of getting red on the spinner below?  
Write your answer as a fraction in its simplest form.



5) By rearranging the cards below, make the largest number possible.



## Week 8: Day 1 Answers

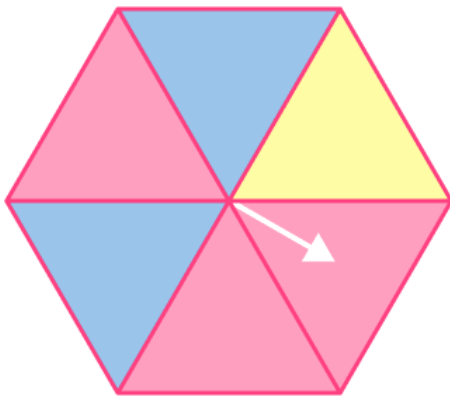
- 1) Find the lowest common multiple (LCM) of 8 and 12. 24

- 2) What is 13.87 rounded to the nearest integer? 14

- 3) Make  $g$  the subject:

$$2h - g = f \qquad g = 2h - f$$

- 4) What is the probability of getting red on the spinner below?  
Write your answer as a fraction in its simplest form.  $\frac{1}{2}$



- 5) By rearranging the cards below, make the largest number possible. 7631



## Week 8: Day 2

1) Find the lowest common multiple (LCM) of 9 and 15.

---

2) What is 2837 rounded to the nearest hundred?

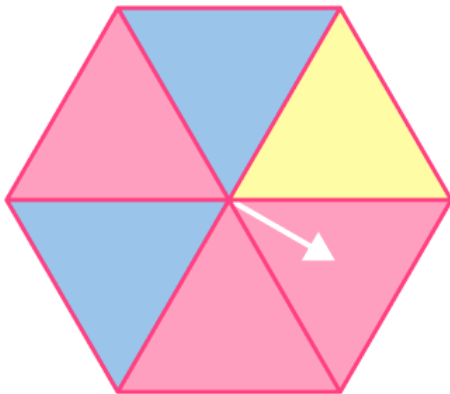
---

3) Make  $b$  the subject:

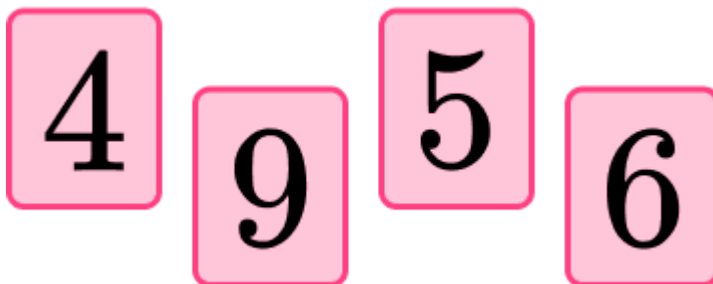
$$5a + 3b = c$$

---

4) What is the probability of not getting blue on the spinner below? Write your answer as a fraction in its simplest form.



5) By rearranging the cards below, make the largest odd number possible.



## Week 8: Day 2 Answers

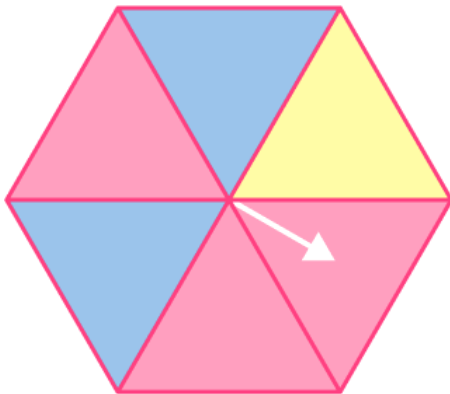
1) Find the lowest common multiple (LCM) of 9 and 15. 45

2) What is 2837 rounded to the nearest hundred? 2800

3) Make  $b$  the subject:

$$5a + 3b = c \qquad b = \frac{1}{3}(c - 5a)$$

4) What is the probability of not getting blue on the spinner below? Write your answer as a fraction in its simplest form.  $\frac{2}{3}$



5) By rearranging the cards below, make the largest odd number possible.  
9645



## Week 8: Day 3

1) Find the lowest common multiple (LCM) of 6 and 15.

---

2) What is 4926 rounded to the nearest ten?

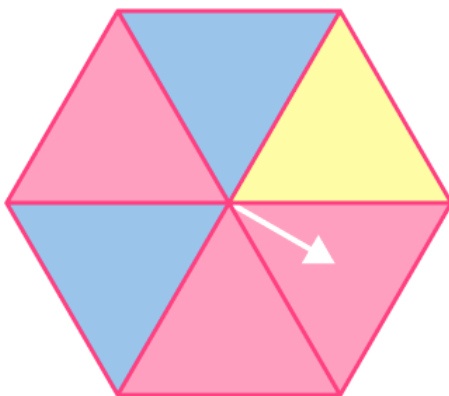
---

3) Make  $y$  the subject:

$$2x - 3y = z - 4y$$

---

4) What is the probability of getting yellow on two successive spins on the spinner below? Write your answer as a fraction in its simplest form.



5) By rearranging the cards below, make the smallest even number possible.



## Week 8: Day 3 Answers

1) Find the lowest common multiple (LCM) of 6 and 15. 30

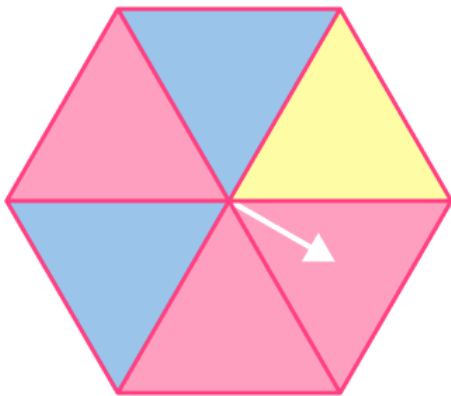
2) What is 4926 rounded to the nearest ten? 4930

3) Make  $y$  the subject:

$$2x - 3y = z - 4y \qquad y = z - 2x$$

4) What is the probability of getting yellow on two successive spins on the spinner below? Write your answer as a fraction in its simplest form.

$$\frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$$



5) By rearranging the cards below, make the smallest even number possible.  
4578



## Week 8: Day 4

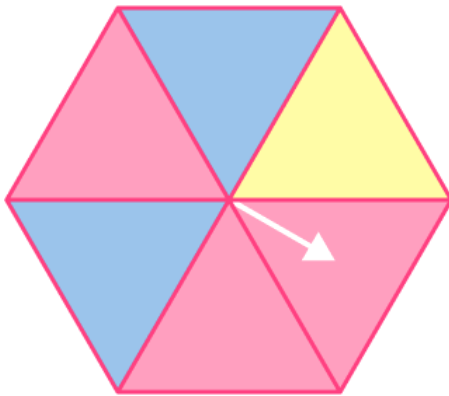
- 1) Find the lowest common multiple (LCM) of 8 and 18.

- 2) What is 45.96 rounded to one decimal place?

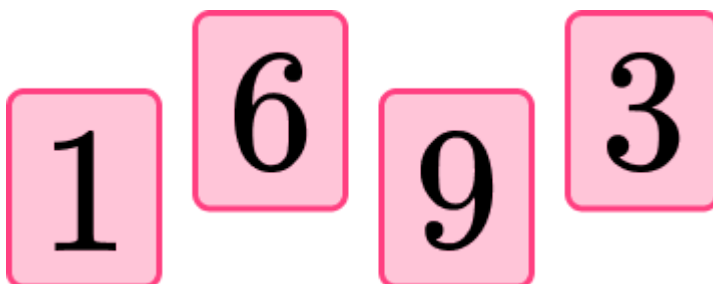
- 3) Make  $m$  the subject:

$$k + \frac{m}{n} = 8$$

- 4) What is the probability of getting red on two successive spins on the spinner below? Write your answer as a decimal.



- 5) By rearranging the cards below, make the largest number possible that is a multiple of four.





## Week 8: Day 4 Answers

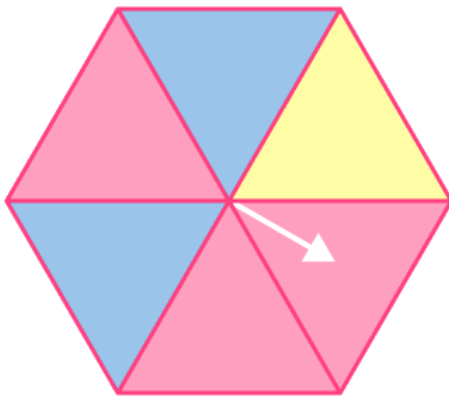
- 1) Find the lowest common multiple (LCM) of 8 and 18. 72

- 2) What is 45.96 rounded to one decimal place? 46.0

- 3) Make  $m$  the subject:

$$k + \frac{m}{n} = 8 \qquad m = n(8 - k)$$

- 4) What is the probability of getting red on two successive spins on the spinner below? Write your answer as a decimal.  $0.5 \times 0.5 = 0.25$



- 5) By rearranging the cards below, make the largest number possible that is a multiple of four. 9316



## Week 8: Day 5

1) Find the lowest common multiple (LCM) of 4, 10 and 14.

---

2) What is 5.49893 rounded to two decimal places?

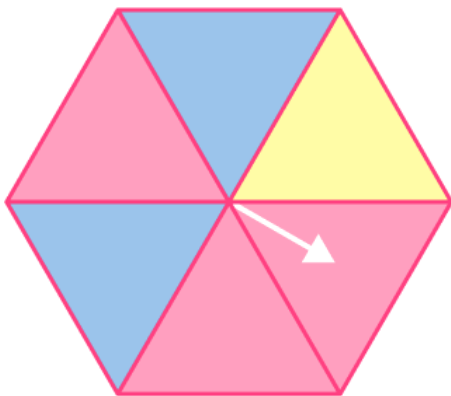
---

3) Make  $p$  the subject:

$$3(p - q) = r$$

---

4) What is the probability of getting blue on three successive spins on the spinner below? Write your answer as a fraction in its simplest form.



5) By rearranging the cards below, make a 3-digit number that is prime.



## Week 8: Day 5 Answers

1) Find the lowest common multiple (LCM) of 4, 10 and 14. 140

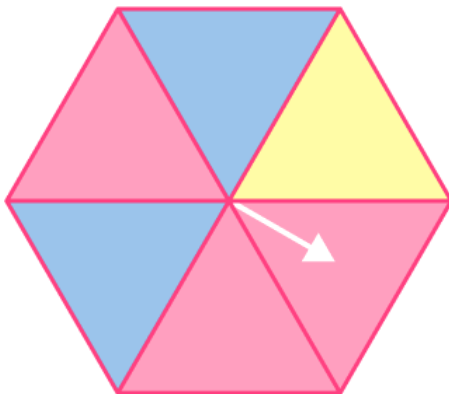
2) What is 5.49893 rounded to two decimal places? 5.50

3) Make  $p$  the subject:

$$3(p - q) = r \quad p = \frac{r}{3} + q$$

4) What is the probability of getting blue on three successive spins on the spinner below? Write your answer as a fraction in its simplest form.

$$\frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} = \frac{1}{27}$$



5) By rearranging the cards below, make a 3-digit number that is prime.

523



**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](https://thirdspacelearning.com) to find out more.