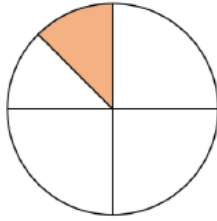


Year 7 Core – Addition and Subtraction of Fractions Questions

1. Explain why this diagram does not show $\frac{1}{5}$



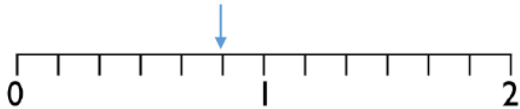
2.

$$\frac{3}{5} = \frac{\square}{10}$$



You may use the bar model to help you.

3. What fraction is the arrow pointing to?



What do you need to add to this fraction to make 2?

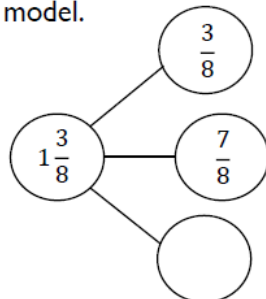
4. Calculate.

$$\frac{3}{8} + \frac{1}{8} + \frac{1}{8} = \underline{\hspace{2cm}}$$

$$\frac{5}{7} - \frac{2}{7} = \underline{\hspace{2cm}}$$

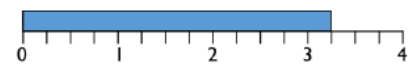
$$\frac{5}{12} + \frac{1}{4} = \underline{\hspace{2cm}}$$

5. Complete the part-whole model.



6. Write the mixed numbers as improper fractions.

$$3\frac{1}{4} = \frac{\square}{4}$$



$$4\frac{2}{3} = \frac{\square}{\square}$$

Year 7 Core – Addition and Subtraction of Fractions Questions

7. Calculate $3\frac{5}{12} + 2\frac{1}{3}$

8. Calculate $\frac{1}{4} + 0.6$

9. Compare using $<$, $>$ or $=$

$$\frac{6}{10} \quad \bigcirc \quad 0.4 + \frac{2}{5}$$

$$3 - \frac{4}{5} \quad \bigcirc \quad 2 + \frac{1}{8}$$

10. $a = \frac{5}{6}$ and $b = \frac{2}{3}$

Calculate

$$a - b = \underline{\hspace{2cm}}$$

$$a + b = \underline{\hspace{2cm}}$$

11. Jay drinks $7\frac{2}{5}$ litres of water in a week.
Amina drinks $5\frac{2}{3}$ litres of water in a week.
How much more water does Jay drink than Amina?

12. Write as a single fraction.

$$\frac{2x}{5} + \frac{3x}{10}$$

Year 7 Higher – Addition and Subtraction of Fractions Questions

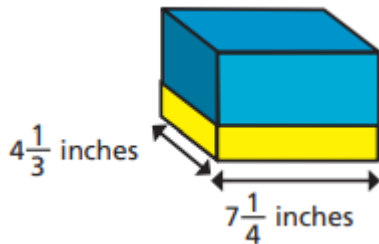
1. Write five fractions that are equivalent to $\frac{36}{48}$

2. Solve the equations.

$$x + \frac{2}{11} = \frac{7}{11}$$

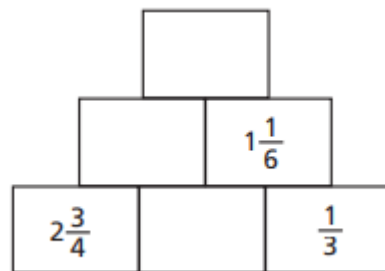
$$x = \boxed{}$$

3. The diagram shows a cake box.
A 25-inch ribbon is used to wrap around the base of the cake box.
How much of the ribbon will be left over?



inches

4. In the fraction pyramid, the number in each box is the sum of the two numbers below.
Is the number on the top box greater than 5.25?



5. Solve the equations.

$$x + 3 = 5\frac{1}{3}$$

$$x = \boxed{}$$

6. If $s = 2$, work out the value of these expressions.

Give your answers as mixed numbers.

a) $\frac{1}{s} + \frac{3}{s^2} = \boxed{}$