

2) $\frac{7}{3\sqrt{7}}$

Multiply and Divide Fractions

1) $\frac{3}{5} \times \frac{2}{3}$

2) $\frac{4}{7} \div \frac{2}{5}$

QUICK WITS Higher 2

Algebraic Fractions and Equations

Solve $\frac{2x-3}{3} + \frac{x-1}{6} = 3$

Nth Term Rule

What is the nth term rule of *1*) 7, 11, 15, 19, ...

2) 1, 4, 9, 16, ...

Reverse Percentage

Kylie had a 10% pay rise. She is now paid £330. How much was she originally paid?

Ratio

Salad dressing is made from oil and vinegar in the ratio 3:1.

- How much oil is needed to make 100ml of salad dressing?
- 2) How much salad dressing can you make if you have plenty of oil but only 20ml of vinegar?

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1) $\frac{1}{\sqrt{7}} \times \frac{\sqrt{7}}{\sqrt{7}} = \frac{\sqrt{7}}{7}$

2) $\frac{7}{3\sqrt{7}} \times \frac{\sqrt{7}}{\sqrt{7}} =$ $\frac{7\sqrt{7}}{21} = \frac{\sqrt{7}}{2}$ **Multiply and Divide Fractions**

1) $\frac{3}{5} \times \frac{2}{3} = \frac{6}{15} = \frac{2}{5}$ 2) $\frac{4}{7} \div \frac{2}{5} = \frac{4}{7} \times \frac{5}{2} = \frac{20}{14} = 1\frac{6}{14} = 1\frac{3}{7}$

Quick Wits

Higher 2

Nth Term Rule

What is the nth term rule of *1*) 7, 11, 15, 19, ... 4n + 32) 1, 4, 9, 16, ...

 n^2

Reverse Percentage

Kylie had a 10% pay rise. She is now paid £330. How much was she originally paid? 110% = 3301% = 3100% = £300or 330 $\frac{1}{11} = £300$

Algebraic Fractions and Equations Solve $\frac{2x-3}{3} + \frac{x-1}{6} = 3$ 4x - 6 + x - 1 = 35x - 7 = 185x = 25x = 5Ratio

Salad dressing is made from oil and vinegar in the ratio 3:1.

1) How much oil is needed to make 100ml of salad dressing?

> $100 \div 4 = 25$ $25 \times 3 = 75ml$

2) How much salad dressing can you make if you have plenty of oil but only 20ml of vinegar? $20 \times 3 = 60ml$ of oil

60ml + 20ml = 80ml of dressing.



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