

END OF YEAR 8

Stage 7/8 (Advanced Multiplicative & Early Advanced Proportional)

<p>Strategy 1: $5.88 + 4.45 = 10.33$ (part whole) $5.88 + 4.45 = ?$ $+0.45 \downarrow \quad \downarrow -0.45$ $6.33 + 4.0 = 10.33$</p> <p>Strategy 2: $6.37 - 2.89 = 3.48$ (part whole) $6.37 - 2.89 = ?$ $+0.11 \downarrow \quad \downarrow +0.11$ $6.48 - 3.0 = 3.48$</p> <p>Strategy 3: Adding and subtracting integers Students can explain the rules for adding and subtracting integers.</p>	<p>Strategy 1: Use an algorithm for division with remainders (2 or 3 digits \div 1 digit)</p> <p>Strategy 2: Express remainders as decimals.</p>	<p>Strategy 1: Students use double number lines and the strategies within and between to solve questions like: If it takes 10 balls of wool to make 15 beanies. How many balls of wool does it take to make 6 beanies?</p> <div style="text-align: center;"> </div> <p>Strategy 2: Students use their knowledge of equivalent fractions, ratios, decimals and percentages to solve questions like there are 21 boys and 14 girls in Anna's class. What percentage of Anna's class are boys?</p> $21:14 = \frac{21}{35} = \frac{3}{5} = 0.6 = 60\%$
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Knowledge	<p>Fractional numbers: Stage 7: Recognises equivalent fractions (e.g. $3/4 = 6/8$) and add simple fractions with unlike denominators e.g. $1/3 + 2/6 = 2/3$ Stage 8: Orders fractions with unlike denominators and numerators (e.g. $1/4, 1/2, 2/3$)</p> <p>Place Value: Stage 7: Knows number of tenths in decimals, orders decimals (e.g. 0.1, 0.2, 0.3) Stage 8: Knows hundredths in decimals, decimals between others, names percentages as decimals and vice versa (e.g. 0.2, 0.25, 0.3 etc)</p> <p>Basic facts: Stage 7: Division Facts Stage 8: Common factors and multiples (1, 2, 3, 4, 6, 12 = factors of 12), (12 = Lowest common factor of 3 and 4)</p>
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1) One can has 5.88 litres of paint in it and the other can has 4.45 litres. How much paint do I have in total?



2) A can has 6.37 litres of paint inside it. I use 2.89 litres. How many litres of paint are left?



3) I have 37 meters of rope that I must cut into 4 equal lengths. How many meters of rope will I have left over?



4) There are 18 litres of fizzy drink that must be shared between 4 containers. How many litres should be put in each container?



5) There are 145 bananas that must be shared evenly between 5 boxes. How many bananas should be packed in each box?



6) If 8 people can wash 12 cars in 1 hour. How many cars can 2 people wash in 1 hour?



7) My book shelf has 16 fiction books and 24 nonfiction books. What percentage of my book case are fiction books?