

Reasoning and Problem Solving Percentages as Fractions and Decimals

Developing

1a. Year 5 have 20 glue sticks, Year 3 have 40 glue sticks. There are 40 glue sticks left which is 40%.

2a. 48%, 47%, 45%, 40%, 4%

3a. Alice is correct $\frac{5}{100} = 5\%$. Johnny is incorrect, $0.05 = 5\%$ not 50%

Expected

4a. Lucy has 60 sweets, Alice has 100 sweets. There are 40 sweets left which is 20%.

5a. 10%, 11%, 15%, 50%, 58%

6a. Gabriel is correct, $\frac{70}{100} = 70\%$. Steph is incorrect, $0.07 = 7\%$ not 70%

Greater Depth

7a. Bill's sells 10 bars. Jack's sells 25 bars. There are 15 bars left which is 30%.

8a. 80%, 75%, 72%, 52%, 32%

9a. They are both correct. $0.36 = \frac{9}{25} = 36\%$.

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Developing

1b. Alice has 40 marbles, Cian has 40 marbles. There are 20 marbles left which is 20%.

2b. 5%, 15%, 25%, 50%, 55%

3b. They are both correct. $0.25 = \frac{25}{100} = 25\%$.

Expected

4b. Class 5 have 40 pencils. Class 4 have 25 pencils. There are 35 pencils left which is 35%.

5b. 75%, 74%, 72%, 70%, 25%

6b. Hannah is correct, $0.5 = 50\%$. Sean is incorrect, $\frac{50}{200} = 25\%$ not 50%.

Greater Depth

7b. Sean and Ben both have 50 sweets each. Steph has 60 sweets. There are 90 sweets left which is 36%.

8b. 80%, 88%, 90%, 92%, 96%

9b. Ben is correct, $\frac{20}{25} = 80\%$. Lucy is incorrect, $0.8 = 80\%$ not 8%.