

Reasoning and Problem Solving Fractions to Percentages

Developing

1a. Archie is incorrect. 1% is not $\frac{1}{10}$. 1% is $\frac{1}{100}$ and $\frac{1}{10}$ is 10%.

2a. Emily 30%, Charlie 40%, Zara 82%, Louis 80% so Zara and Louis get through to the final.

3a. Less than 50% = $\frac{3}{100}$ (3%) and $\frac{2}{10}$ (20%). Equal to 50% = $\frac{5}{10}$. More than 50% = $\frac{9}{10}$ (90%).

Expected

4a. Millen is incorrect. 25% is not $\frac{1}{25}$. 25% is $\frac{1}{4}$ and $\frac{1}{25}$ is 4%.

5a. Ava-Lily 64%, Tyrese 40%, Rochelle 72% and Kaelan 80% so only Kaelan gets to the final.

6a. Less than 50% = $\frac{4}{10}$ (40%), $\frac{19}{50}$ (38%) and $\frac{8}{20}$ (40%). None of the fractions are equal to 50%. More than 50% = $\frac{11}{20}$ (55%), $\frac{15}{25}$ (60%) and $\frac{22}{25}$ (88%).

Greater Depth

7a. Marie is correct.

8a. Amie 60%, Sadie 92%, Robert 16%, David 95% so Sadie and David get through to the final.

9a. Less than 50% = $\frac{5}{20}$ (25%) and $\frac{2}{5}$ (40%). Equal to 50% = $\frac{2}{4}$. More than 50% = $\frac{92}{100}$ (92%), $\frac{13}{25}$ (52%) and $\frac{34}{50}$ (68%).

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Developing

1b. Annabelle is correct.

2b. Tyler 7%, Nathan 90%, Sophia 30%, Willow 87% so Nathan and Willow get through to the final.

3b. Less than 50% = $\frac{1}{10}$ (10%). Equal to 50% = $\frac{50}{100}$. More than 50% = $\frac{7}{10}$ (70%) and $\frac{65}{100}$ (65%).

Expected

4b. Joey is correct.

5b. Skyla 75%, Jay 40%, Kira 58%, Dawson 28% so only Skyla gets through to the final round.

6b. Less than 50% = $\frac{8}{25}$ (32%), $\frac{1}{50}$ (2%) and $\frac{19}{50}$ (38%). Equal to 50% = $\frac{5}{10}$. More than 50% = $\frac{24}{25}$ (96%) and $\frac{12}{20}$ (60%).

Greater Depth

7b. Ray is incorrect. 75% is not $\frac{15}{25}$. 75% is $\frac{3}{4}$ and $\frac{15}{25}$ is 60%.

8b. Will 75%, Ruby 89%, Aiden 84%, Betty 80% so Ruby, Aiden and Betty get through to the final.

9b. Less than 50% = $\frac{35}{100}$ (35%), $\frac{4}{20}$ (20%), $\frac{12}{25}$ (48%) and $\frac{24}{50}$ (48%). None of the fractions are equal to 50%. More than 50% = $\frac{4}{4}$ (100%) and $\frac{9}{10}$ (90%).