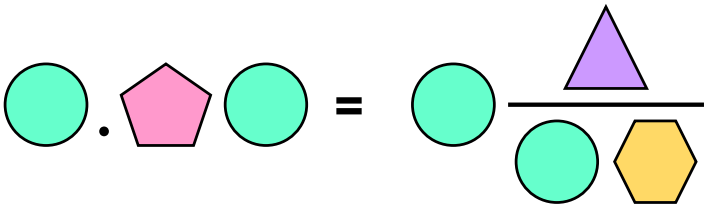
Decimals as Fractions

7a. Find the digits represented by the symbols.

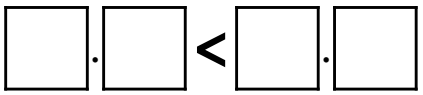
Clue: The digit sum of the pentagon and the circle is 3.

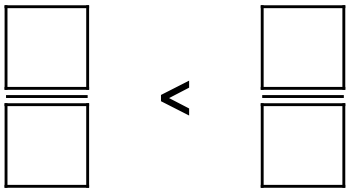


Are there other possibilities?

GD PS

8a. Use the digit cards to make the inequality statements true. You can use the cards more than once.





1 48 2 3 12 25

GD PS

9a. Saif and Katie are measuring sunflowers.

Saif's sunflower is 1.12m tall. Katie's sunflower is $1\frac{1}{5}$m tall.



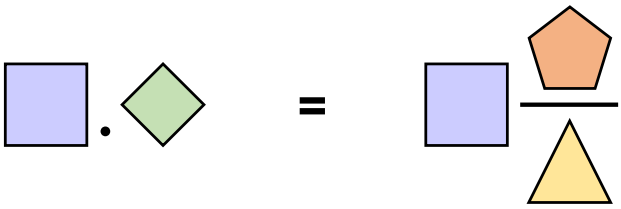
Is he correct? Prove it.

GD R

Decimals as Fractions

7b. Find the digits represented by the symbols.

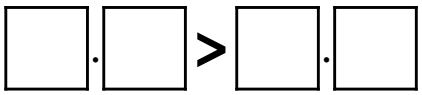
Clue: The square and the rhombus add together to make a multiple of 3.

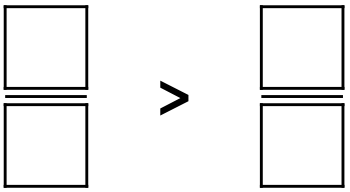


Are there other possibilities?

GD PS

8b. Use the digit cards to make the inequality statements true. You can use the cards more than once.





35 20 7 45 1 9

GD PS

9b. Quinn and Alan are measuring their garden paths.

Alan's garden path is 2.66m long. Quinn's garden path is $2\frac{4}{5}$m long.



Is she correct? Prove it.

GD R

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Reasoning and Problem Solving Decimals as Fractions

Developing

1a. circle = 0; pentagon = 1. No other possibilities.

2a. $\frac{3}{5} > \frac{1}{5}$

3a. Leo is incorrect. 0.5 and $\frac{5}{10}$ are equal.

Expected

4a. oval = 0; triangle = 2, square = 4, rectangle = 1. Other possibilities for the triangle and square: 3 and 6 or 4 and 8.

5a. $0.75 > 0.4 = \frac{3}{4} > \frac{2}{5}$

6a. Paul is incorrect. 0.64 has 6 tenths and 4 hundredths. $\frac{3}{5}$ is equivalent to $\frac{6}{10}$ which has 6 tenths and 0 hundredths. This makes 0.64 greater than $\frac{3}{5}$.

Greater Depth

7a. circle = 2; pentagon = 1; triangle = 3; hexagon = 5. No other possibilities.

8a. $1.48 < 2.12 = 1\frac{12}{25} < 2\frac{3}{25}$

9a. Saif is incorrect, 1.12 is equivalent to $1\frac{3}{25}$ which is less than $1\frac{1}{5}$.

Reasoning and Problem Solving Decimals as Fractions

Developing

1b. triangle = 0; square = 2; rhombus = 1. Other possibilities for square: 4, 6, 8.

2b. $\frac{1}{2} < \frac{7}{10}$

3b. Aisha is incorrect. $\frac{5}{10} = 0.5$ which has 5 in the tenths column, whereas 0.4 has 4 tenths. This makes $\frac{5}{10}$ greater than 0.4.

Expected

4b. triangle = 0, circle = 4, pentagon = 2, parallelogram = 1. Other possibilities for circle and pentagon: 6 and 3, 8 and 4.

5b. $0.4 < 0.5 = \frac{2}{5} < \frac{1}{2}$

6b. Adele is incorrect. 0.8 is equal to $\frac{4}{5}$.

Greater Depth

7b. square = 1; rhombus = 4; pentagon = 2; triangle = 5, or square = 1; rhombus = 8; pentagon = 4; triangle = 5

8b. $1.45 > 1.35 = 1\frac{9}{20} > 1\frac{7}{20}$

9b. Quinn is correct. 2.66 is equivalent to $2\frac{33}{50}$ which is less than $2\frac{4}{5}$.

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