

Day 4 extension questions

1. Eva and Alex each have two identical pizzas.

Eva says,

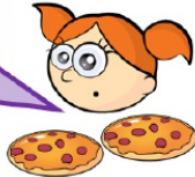


I have cut each pizza into 6 equal pieces and eaten 8



Alex says,

I have cut each pizza into 9 equal pieces and eaten 15



Who ate the most pizza?

Use a drawing to support your answer.

2.

Dora looks at the fractions $1\frac{7}{12}$ and $1\frac{3}{4}$

She says,



$1\frac{7}{12}$ is greater than $1\frac{3}{4}$ because the numerator is larger

Do you agree?

Explain why using a model.

3.

How many different ways can you balance the equation?

$$\frac{5}{9} + \frac{\square}{9} = \frac{8}{9} + \frac{\square}{9}$$

4.

A chocolate bar has 12 equal pieces.

Amir eats $\frac{5}{12}$ more of the bar than Whitney.

There is one twelfth of the bar remaining.

What fraction of the bar does Amir eat?

What fraction of the bar does Whitney eat?

5.

$$\frac{5}{16} + \frac{\square}{8} = \frac{15}{16}$$

$$\frac{\square}{20} + \frac{7}{10} = \frac{17}{20}$$

6.

Annie solved this calculation.

$$\frac{3}{4} + \frac{3}{16} = \frac{3+3}{4+16}$$

$$= \frac{6}{20}$$

$$= \frac{3}{10}$$

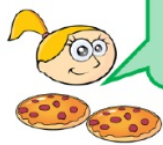
Can you spot and explain her mistake?

Day 4 extension questions ANSWERS

1.

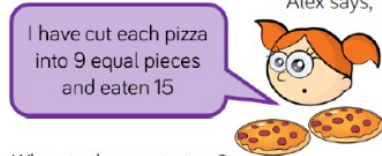
Eva and Alex each have two identical pizzas.

Eva says,



I have cut each pizza into 6 equal pieces and eaten 8

Alex says,



I have cut each pizza into 9 equal pieces and eaten 15

Who ate the most pizza?

Use a drawing to support your answer.

Alex ate the most pizza because $\frac{15}{9}$ is greater than $\frac{8}{6}$

2.

Dora looks at the fractions $1\frac{7}{12}$ and $1\frac{3}{4}$

She says,



$1\frac{7}{12}$ is greater than $1\frac{3}{4}$ because the numerator is larger

Do you agree?

Explain why using a model.

Possible answer: I do not agree because $1\frac{3}{4}$ is equivalent to $1\frac{9}{12}$ and this is greater than $1\frac{7}{12}$

3.

How many different ways can you balance the equation?

$$\frac{5}{9} + \frac{\square}{9} = \frac{8}{9} + \frac{\square}{9}$$

Possible answers:

$$\frac{5}{9} + \frac{3}{9} = \frac{8}{9} + \frac{0}{9}$$

$$\frac{5}{9} + \frac{4}{9} = \frac{8}{9} + \frac{1}{9}$$

$$\frac{5}{9} + \frac{5}{9} = \frac{8}{9} + \frac{2}{9}$$

5.

$$\frac{5}{16} + \frac{\square}{8} = \frac{15}{16}$$

$$\frac{\square}{20} + \frac{7}{10} = \frac{17}{20}$$

Any combination of fractions where the numerators add up to the same total on each side of the equals sign.

5

3

4.

A chocolate bar has 12 equal pieces.

Amir eats $\frac{5}{12}$ more of the bar than Whitney.

There is one twelfth of the bar remaining.

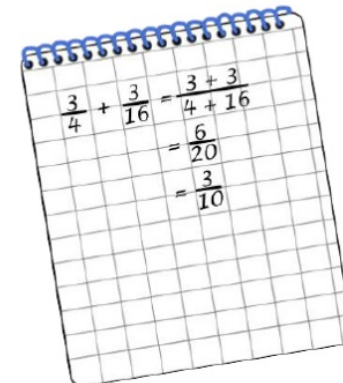
What fraction of the bar does Amir eat?

What fraction of the bar does Whitney eat?

Amir eats $\frac{8}{12}$ of the chocolate bar and Whitney eats $\frac{3}{12}$ of the chocolate bar.

6.

Annie solved this calculation.



Can you spot and explain her mistake?

Annie is wrong because she has just added the numerators and the denominators. When adding fractions with different denominators you need to find a common denominator.