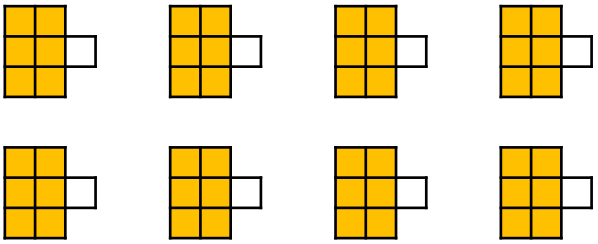
Multiply Fractions by Integers

1a. There are 8 children at a party.

Each child needs $\frac{6}{7}$ of a carton of juice.



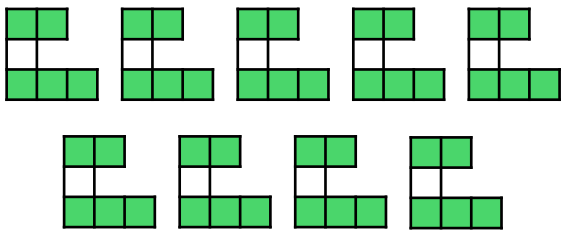
How many cartons of juice need to be ordered?
Prove it.

D

PS

2a. Cassie has written the calculation to match the representation below.

$$\frac{5}{7} \times 9 = \frac{45}{7}$$



Find and correct Cassie's mistake.

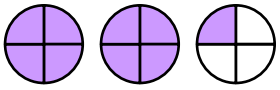
D

R

3a. Libby is practising for a school play.

Libby

I need to practise for more than 10 hours. I can practise for $2\frac{1}{4}$ hours a week.



What is the minimum number of weeks Libby should practise for?
Explain your answer.

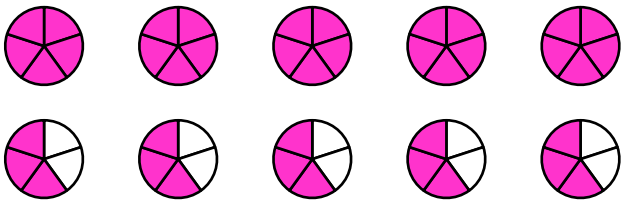
D

PS

Multiply Fractions by Integers

1b. There are 5 children at a party.

Each child needs 1 bowl of fruit and another $\frac{3}{5}$ of a bowl of fruit.



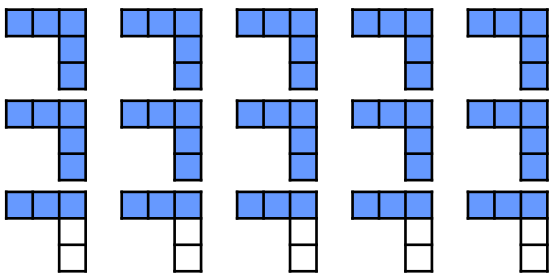
How many bowls of fruit need to be prepared?
Prove it.

D

PS

2b. Robbie has written the calculation to match the representation below.

$$2\frac{2}{5} \times 5 = 12$$



Find and correct Robbie's mistake.

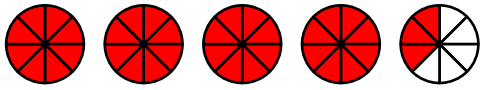
D

R

3b. Jayden is practising for a school play.

Jayden

I need to practise for more than 15 hours. I can practise for $4\frac{3}{8}$ hours a week.



What is the minimum number of weeks Jayden should practise for?
Explain your answer.

D

PS

Multiply Fractions by Integers

Multiply Fractions by Integers

4a. There are 7 children at a party.

Each child needs 2 cans plus an extra $\frac{2}{5}$ of another can.

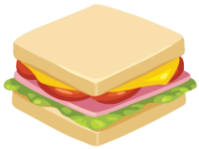
How many full cans need to be ordered?

Prove it.

E PS

4b. There are 5 children at a party.

Each child needs 3 sandwiches plus $\frac{3}{7}$ of another sandwich.

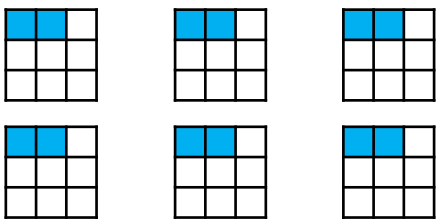


How many whole sandwiches need to be made?
Prove it.

E PS

5a. Nolan created an image to represent his calculation.

$$2\frac{2}{9} \times 6 = 13\frac{1}{3}$$

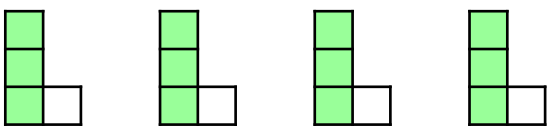


Find and correct Nolan's mistake.

E R

5b. Tanni created an image to represent her calculation.

$$\frac{3}{8} \times 4 = 1\frac{1}{2}$$



Find and correct Tanni's mistake.

E R

6a. Rachel is practising for a school play.

Rachel

I need to practise for more than 15 hours. I can practise for $4\frac{3}{4}$ hours a week.

What is the minimum number of weeks Rachel should practise for?
Explain your answer.

E PS

6b. Hamza is practising for a school play.

Hamza

I need to practise for more than 20 hours. I can practise for $3\frac{5}{6}$ hours a week.

What is the minimum number of weeks Hamza should practise for?
Explain your answer.

E PS

Multiply Fractions by Integers

7a. There are 9 children at a party.

Each child needs 3 pizzas plus an extra $\frac{4}{11}$ of another pizza.

How many whole pizzas need to be ordered?
Create an image to prove it.

GD PS

7b. There are 13 children at a party.

Each child needs 2 bread rolls plus $\frac{6}{7}$ of another bread roll.

How many whole bread rolls need to be bought?
Create an image to prove it.

GD PS

8a. Sheraz solved the calculation below.

$$\frac{27}{15} \times 6$$

Sheraz

The answer is $10\frac{4}{15}$.

Find and correct Sheraz's mistake.

GD R

8b. Elaine solved the calculation below.

$$\frac{7}{8} \times 3$$

Elaine

The answer is $1\frac{13}{8}$.

Find and correct Elaine's mistake.

GD R

9a. Olivia is practising for a school play.

Olivia

I need to practise for more than 12 hours. I can practise for $2\frac{5}{9}$ hours a week.

What is the minimum number of weeks Olivia should practise for?
Explain your answer.

GD PS

9b. Mason is practising for a school play.

Mason

I need to practise for more than 15 hours. I can practise for $\frac{17}{6}$ hours a week.

What is the minimum number of weeks Mason should practise for?
Explain your answer.

GD PS