Tuesday 16th June Year 5/6: Ratio and Fractions







Complete the sentence to describe the objects below.

There are 4 lightning bolts for every 3 squares.



Match the fraction of circles to the correct set of objects.



Match the fraction of circles to the correct set of objects.



True or false?

If there are 3 bananas for every 5 peaches, $\frac{3}{8}$ of the fruit are peaches.



True or false?

If there are 3 bananas for every 5 peaches, $\frac{3}{8}$ of the fruit are peaches.

False,
$$\frac{3}{8}$$
 of the fruit are bananas.







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Use the statement below to complete the bar model.

There are 6 squares for every 2 circles.



Write a fraction showing each quantity.





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There are 6 squares for every 2 circles.



Write a fraction showing each quantity.





Problem Solving 1

Gemma is making a bracelet using orange and blue beads.

Each bracelet contains 18 beads in total.

Write 5 pairs of fractions to show the possible ratio blue to orange beads.



Problem Solving 1

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Each bracelet contains 18 beads in total.

Write 5 pairs of fractions to show the possible ratio blue to orange beads.

Various answers, for example:

 $\frac{11}{18}$ blue beads and $\frac{7}{18}$ orange beads



Which of the following statements match the image?

- A. $\frac{1}{6}$ of the vegetables are pumpkins.
- B. There are 3 chillies for every 4 peppers.
- C. There are 8 items in total.

Explain how you know.



Which of the following statements match the image?

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- C. There are 8 items in total.

Explain how you know.

Statement C because...



Which of the following statements match the image?

- A. $\frac{1}{6}$ of the vegetables are pumpkins.
- B. There are 3 chillies for every 4 peppers.
- C. There are 8 items in total.

Explain how you know.

Statement C because there are four chillies, one pumpkin and three peppers, which makes 8 in total.



Emma has a bag of 1p and 2p coins.

9 of the coins are worth 1p.

Emma says:



There are more 2p coins than 1p coins.

Nick says:



There are four 2p coins.

Who is correct? Explain how you know.



Reasoning 2 Emma has a bag of 1p and 2p coins. 9 of the coins are worth 1p. 13 Emma says: There are more 2p coins than 1p coins. Nick says: There are four 2p coins. Who is correct? Explain how you know.

Nick is correct because...



Reasoning 2 Emma has a bag of 1p and 2p coins. of the coins are worth 1p. 4 13 Emma says: There are more 2p coins than 1p coins. Nick says: There are four 2p coins.

Who is correct? Explain how you know.

Nick is correct because there are 13 coins in total and if there are nine 1p coins, there must be four 2p coins.



Year 5 and Year 6 Developing





Year 6 Expected	
5a. Match the fraction of triangles to the correct set of objects.	5b. Match the fraction of circles to the correct set of objects.
$\frac{3}{7}$ A. $\blacktriangle \blacklozenge \blacklozenge \blacklozenge \blacklozenge \blacklozenge$	$\frac{3}{8} \qquad A. \blacktriangle \bigcirc \bigcirc \bigcirc \diamondsuit \diamondsuit$
$\frac{7}{10} \qquad \text{B.} \qquad \blacktriangle \land \blacklozenge \diamondsuit \diamondsuit$	$\frac{4}{7} \qquad B. \clubsuit \bigstar \bigstar \odot \odot$
$\frac{2}{6}$ C.	$\frac{2}{5}$ C.
6 VF	6 VF
6a. True or false?	6b. True or false?
If there are 2 oranges for every 3 apples, $\frac{3}{5}$ of the fruit are oranges.	If there are 4 bananas for every 2 grapes, $\frac{2}{5}$ of the fruit are grapes.
6 VF	6 VF
7a. Complete the sentence below if $\frac{2}{7}$ are pentagons and $\frac{4}{7}$ are squares.	7b. Complete the sentence below if $\frac{3}{8}$ are circles and $\frac{2}{8}$ are pentagons.
There aresquares for every	There arecircles for every
pentagons.	pentagons.



Year 6 Greater Depth



