



‘Confident, Independent, Forward-thinking’

# Kents Hill Park Online Lesson

## Recording of Online Lessons

**Please be aware that all Online Lessons are recorded**

**Following all lessons the recording will be made available within Microsoft Teams to all staff and pupils for review and recap.**



**Kents Hill Park School**

## Participating in an online lesson using an online learning platform

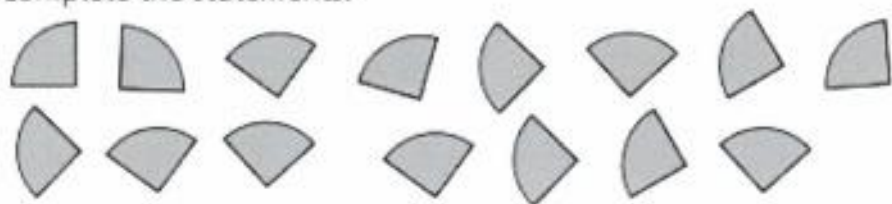
I understand that an online lesson is an extension of the classroom and that I should conduct myself as I would in a classroom environment.

This includes:

- Taking part in an online lesson in an environment that is safe, quiet and free from distractions (preferably not a bedroom)
- Being on time for the virtual lesson.
- Remaining attentive during lesson.
- Interacting patiently and respectfully with your teachers and peers.
- Not recording each other's online interactions.
- Remaining for the full duration of the lesson.
- Switching off my video camera and microphone before joining a lesson and when requested to do so by your teacher.
- Finishing the session when your teacher instructs you to do so.



- 2 Max has 15 quarter circles. He joins them together to make whole circles. Complete the statements.



quarters make one whole circle.

Max has  $\frac{15}{4}$  circles in total. That is   $\frac{3}{4}$  whole circles.

- 3 Convert these improper fractions to mixed numbers.

a)  $\frac{13}{3} =$    $\frac{1}{3}$

d)  $\frac{14}{5} =$    $\frac{4}{5}$

b)  $\frac{13}{4} =$    $\frac{1}{4}$

e)  $\frac{15}{5} =$

c)  $\frac{13}{5} =$    $\frac{3}{5}$

f)  $\frac{16}{5} =$    $\frac{1}{5}$

- 4 Write these improper fractions as mixed numbers in different ways.

a)  $\frac{14}{4} =$    $\frac{2}{4} =$    $\frac{1}{2}$

b)  $\frac{27}{6} =$    $\frac{3}{6} =$    $\frac{1}{2}$

c)  $\frac{40}{12} =$   $3\frac{4}{12} = 3\frac{2}{6} = 3\frac{1}{3}$

- 5 Find different solutions to this problem.

$$\frac{\blacktriangle}{10} = \blacksquare \frac{\star}{10}$$



$$\frac{23}{10} = 2 \frac{3}{10} \quad \frac{41}{10} = 4 \frac{1}{10}$$

CHALLENGE

I will just pick some numbers to start with and then change one to make the calculation correct.



Explain the relationship between  $\blacktriangle$ ,  $\blacksquare$  and  $\star$ .

$$\blacksquare \times \text{denominator} + \star = \blacktriangle$$

# Converting improper fractions to mixed numbers

Convert.

1.  $\frac{10}{3} =$  \_\_\_\_\_

2.  $\frac{7}{2} =$  \_\_\_\_\_

3.  $\frac{7}{5} =$  \_\_\_\_\_

4.  $\frac{38}{10} =$  \_\_\_\_\_

5.  $\frac{20}{12} =$  \_\_\_\_\_

6.  $\frac{3}{2} =$  \_\_\_\_\_

# Converting improper fractions to mixed numbers – your turn



$$7. \frac{9}{5} = \underline{1 \frac{4}{5}}$$

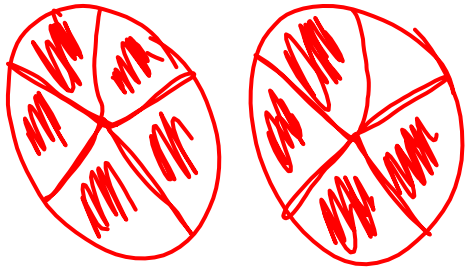
$$8. \frac{13}{4} = \underline{3 \frac{1}{4}}$$

$$9. \frac{19}{5} = \underline{3 \frac{4}{5}}$$

$$10. \frac{7}{4} = \underline{1 \frac{3}{4}}$$

$$11. \frac{26}{12} = \underline{2 \frac{2}{12}}$$

$$12. \frac{12}{8} = \underline{1 \frac{4}{8}}$$



# Converting mixed numbers to improper fractions

$$3 \times 10 + 4$$

Convert.

1.  $3\frac{4}{10} = \frac{34}{10}$

$$3 \times 3 + 1$$

2.  $3\frac{1}{3} = \frac{10}{3}$

3.  $2\frac{5}{8} = \frac{21}{8}$

4.  $2\frac{2}{4} = \frac{10}{4}$

5.  $3\frac{5}{6} =$  \_\_\_\_\_

6.  $2\frac{2}{8} =$  \_\_\_\_\_



# Converting mixed numbers to improper fractions – your turn

$$7. \quad 3\frac{2}{3} = \frac{3 \times 3 + 2}{3} = \frac{11}{3}$$

$$8. \quad 1\frac{3}{6} = \frac{9}{6}$$

$$9. \quad 1\frac{7}{8} = \frac{15}{8}$$

$1 = \frac{8}{8} + \frac{7}{8}$

$$10. \quad 1\frac{1}{4} = \frac{5}{4}$$

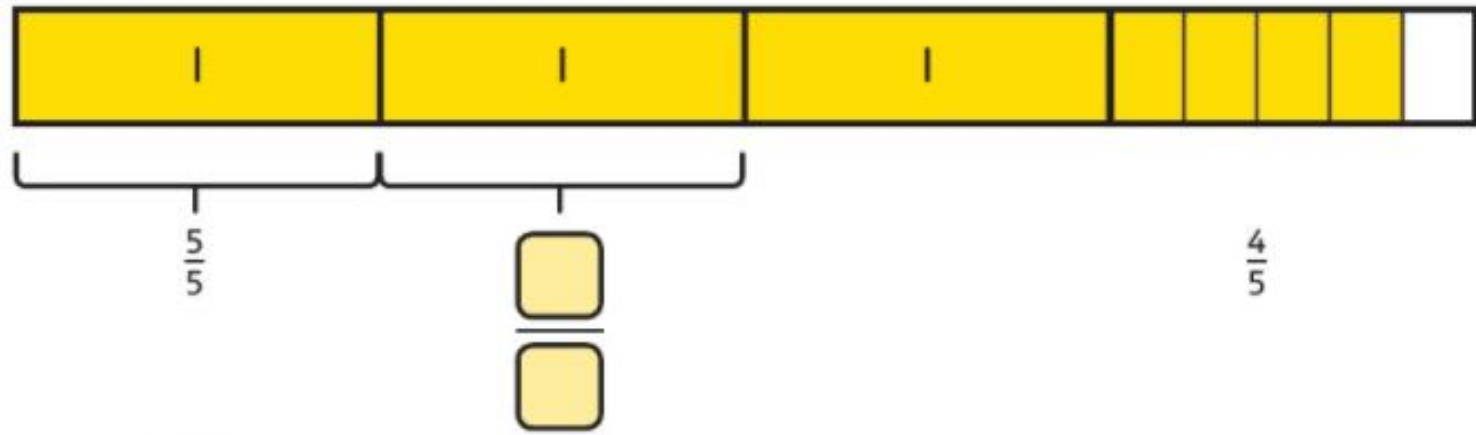
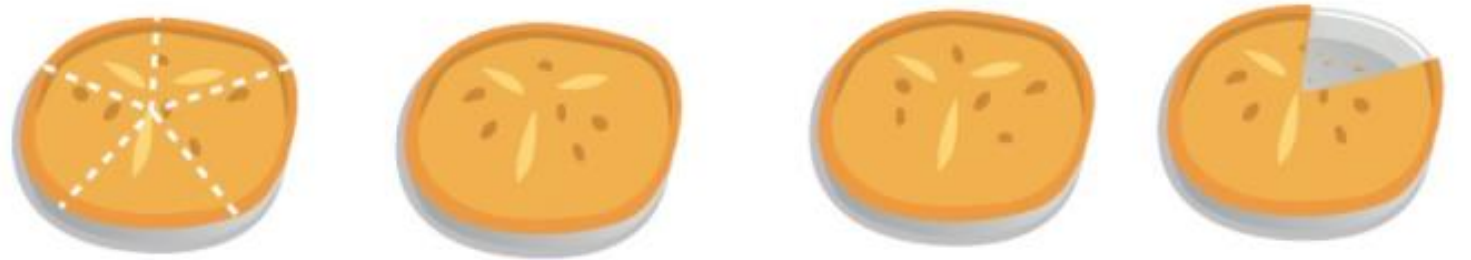
$$11. \quad 1\frac{1}{6} = \frac{7}{6}$$

$$12. \quad 2\frac{4}{5} = \frac{14}{5}$$

$$1 = \frac{5}{5} \quad 2 = \frac{10}{5} + \frac{4}{5}$$

At the picnic there are  $3\frac{4}{5}$  pies. Each child is given  $\frac{1}{5}$  of a pie.

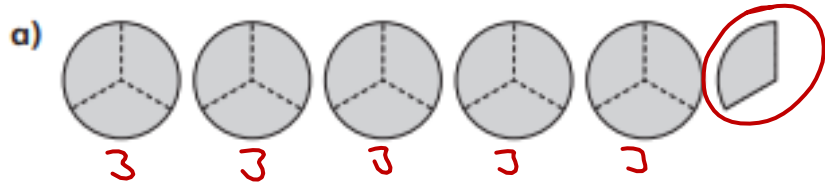
How many children can each have  $\frac{1}{5}$  of a pie?



$$3\frac{4}{5} = \frac{\square}{\square}$$

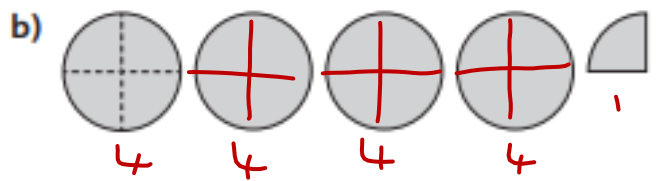
children can each have  $\frac{1}{5}$  of a pie.

1 Convert the mixed numbers into improper fractions.

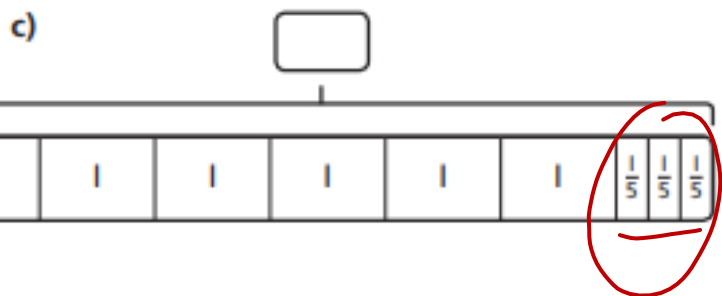


$$5\frac{1}{3} = \frac{\quad}{3}$$

$$5 \times \frac{3}{3} = \frac{15}{3} + \frac{1}{3}$$



$$4\frac{1}{4} = \frac{\boxed{17}}{\boxed{4}}$$

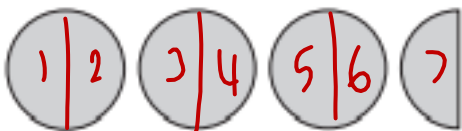



$$\boxed{6}\frac{\boxed{3}}{\boxed{5}} = \frac{\boxed{33}}{\boxed{5}}$$


$$1 = \frac{5}{5}$$

$$6 = \frac{30}{5}$$

2 Match each mixed number to the improper fraction.

  $3\frac{1}{2}$

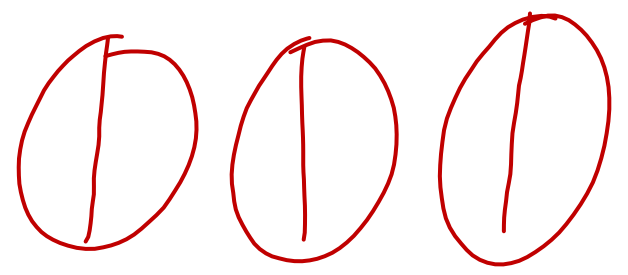
$3\frac{1}{4}$    $2\frac{1}{4}$

  $2\frac{1}{2}$

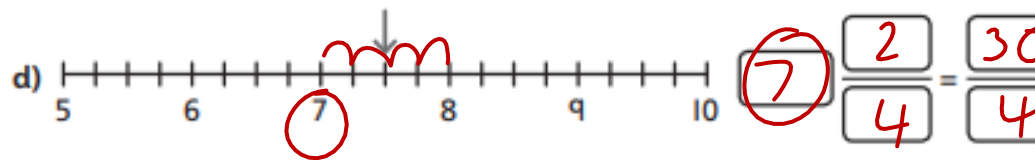
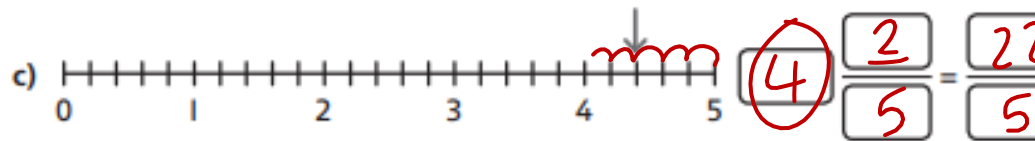
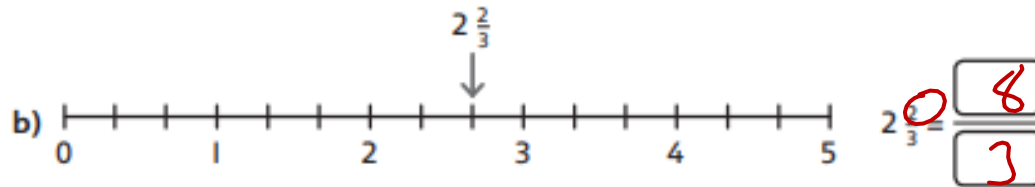
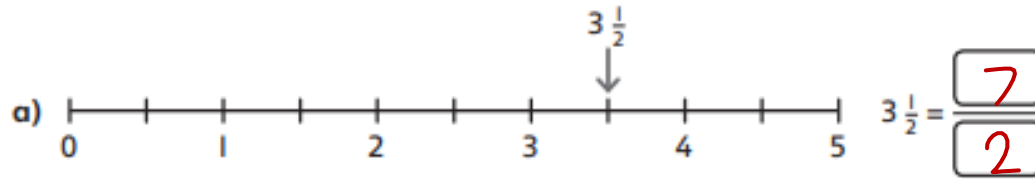
$\frac{9}{4}$   
 $\frac{13}{4}$   
 $\frac{7}{2}$   
 $\frac{5}{2}$

$$1 = \frac{4}{4}$$

$$3 = \frac{12}{4}$$



3 Write the improper fraction for each mixed number shown.



4 Convert the mixed numbers into improper fractions.

a)  $4\frac{1}{5} = \frac{\boxed{21}}{\boxed{5}}$

b)  $4\frac{2}{5} = \frac{\boxed{22}}{\boxed{5}}$

c)  $4\frac{4}{5} = \frac{\boxed{24}}{\boxed{5}}$

5 A waiter has  $3\frac{1}{2}$  litres of juice. A glass holds  $\frac{1}{4}$  of a litre. How many glasses can the waiter fill?



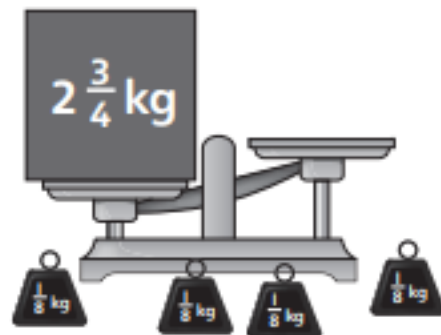
$$1 = \frac{3}{3}$$

$$2 = \frac{6}{3}$$

$$1 = \frac{5}{5}$$

$$4 = \frac{20}{5}$$

- 6 How many  $\frac{1}{8}$  kg weights would balance the box?



- 7 Complete the missing numbers.

a)  $\frac{\boxed{\phantom{000}}}{4} = 3\frac{1}{2}$

$\frac{\boxed{\phantom{000}}}{8} = 3\frac{1}{2}$

$\frac{21}{\boxed{\phantom{000}}} = 3\frac{1}{2}$

b)  $4\frac{5}{10} = \frac{\boxed{\phantom{000}}}{2}$

$4\frac{6}{10} = \frac{\boxed{\phantom{000}}}{5}$

$4\frac{7}{10} = \frac{\boxed{\phantom{000}}}{20}$

$4\frac{8}{10} = \frac{\boxed{\phantom{000}}}{15}$

**CHALLENGE**