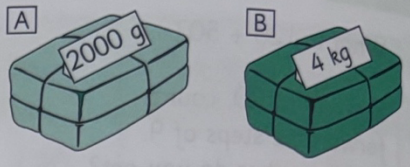
Test 2

Warm Up Questions

1) Convert the mass of parcel B to grams.

2) Which parcel is heavier?

3) What is the difference, in grams, between the two parcels?



Part A

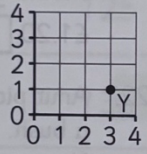
1. What is 9 × 9? .....

2. What is 1687 rounded to the nearest ten? .....

3. What is 70 × 2? .....

4. What number is 1000 less that 9999? .....

5. What are the coordinates of point Y? .....



6. Starting at 40, count forward 3 steps of 6. What number do you get? .....

7. Convert 22 cm to mm. ..... mm

8. What is 2700 – 500? .....

9. A circle is divided into 12 equal parts. How many parts would you need to shade to show $\frac{1}{4}$? .....

10. What is 250 + 40? .....

11. There are 420 houses in a town. 79 more houses are built. How many houses are there now? .....

12. Which symbol (< or >) should go in the box?
0.2 [?] 1.5 .....

13. 93 boxes are loaded equally onto 3 lorries. How many boxes are on each lorry? .....

Part B

14. The perimeter of a square is 24 cm. What is the length of one side of the square? ..... cm

15. What number is in the tens position of 391? .....

16. Find the missing number to complete this multiplication.
[?] × 11 = 66 .....

17. Which number is the smallest?
3002 3250 3045 .....

18. A film is 2 hours long. How long is it in minutes? ..... mins

19. Which calculation gives the answer 80?
[10 × 4] [40 × 2] [30 × 3] .....

20. What is 17 × 3? .....

21. What is 17:36 in 12-hour clock format? .....

22. What is 38 ÷ 100? .....

23. The pictogram shows how many pieces of cheese two mice ate. How many pieces did Nibbles eat?

Squeak	
Nibbles	

= 2 pieces .....

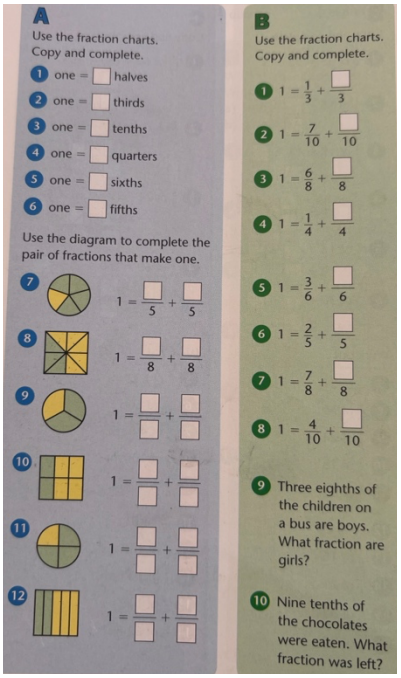
24. What is 3 × 0? .....

25. Which digit is in the tenths position of 31.6? .....

LO – I can understand how different fractions make a whole

- Following on from the video lesson, you are going to be working through different questions about fractions.

- TASK 1: Complete column A and B on page 42 of your Maths on Target Year 4 Book. →
- TASK 2: Complete the following on this sheet on in your maths book:



A

Use the fraction charts. Copy and complete.

1. one = ☐ halves
2. one = ☐ thirds
3. one = ☐ tenths
4. one = ☐ quarters
5. one = ☐ sixths
6. one = ☐ fifths

Use the diagram to complete the pair of fractions that make one.

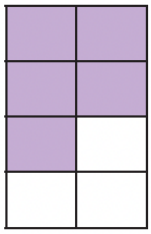
7. $1 = \frac{\square}{5} + \frac{\square}{5}$
8. $1 = \frac{\square}{8} + \frac{\square}{8}$
9. $1 = \frac{\square}{\square} + \frac{\square}{\square}$
10. $1 = \frac{\square}{\square} + \frac{\square}{\square}$
11. $1 = \frac{\square}{\square} + \frac{\square}{\square}$
12. $1 = \frac{\square}{\square} + \frac{\square}{\square}$

B

Use the fraction charts. Copy and complete.

1. $1 = \frac{1}{3} + \frac{\square}{3}$
2. $1 = \frac{7}{10} + \frac{\square}{10}$
3. $1 = \frac{6}{8} + \frac{\square}{8}$
4. $1 = \frac{1}{4} + \frac{\square}{4}$
5. $1 = \frac{3}{6} + \frac{\square}{6}$
6. $1 = \frac{2}{5} + \frac{\square}{5}$
7. $1 = \frac{7}{8} + \frac{\square}{8}$
8. $1 = \frac{4}{10} + \frac{\square}{10}$
9. Three eighths of the children on a bus are boys. What fraction are girls?
10. Nine tenths of the chocolates were eaten. What fraction was left?

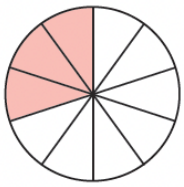
1) Complete the sentences for each diagram.



This shape has ___ equal parts.

Each part is $\frac{1}{\square}$.

If I shade in _____ more parts, I will make 1 _____.



This shape has ___ equal parts.

Each part is $\frac{1}{\square}$.

If I shade in _____ more parts, I will make 1_____.

2) Write the fraction of this diagram that is shaded:

a) yellow $\frac{\square}{\square}$ **b)** red $\frac{\square}{\square}$ **c)** blue $\frac{\square}{\square}$

2) Complete the bar models. **a)**

b)

3) Complete these additions.

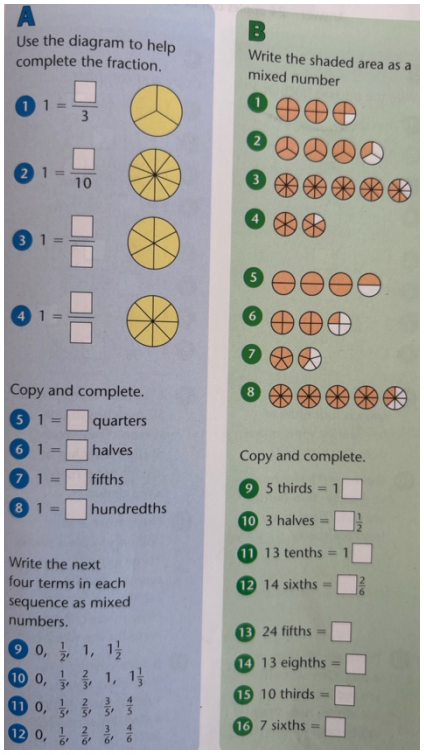
a) $\frac{4}{7} + \frac{\square}{\square} = 1$ **b)** $\frac{\square}{\square} + \frac{6}{11} = 1$ **c)** $1 = \frac{\square}{\square} + \frac{3}{12}$

Game: https://phet.colorado.edu/sims/html/build-a-fraction/latest/build-a-fraction_en.html

LO – I can understand fractions beyond a whole

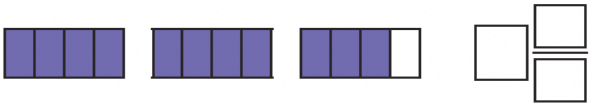
- Following on from the video lesson, you are going to be working through different questions about fractions bigger than one whole.

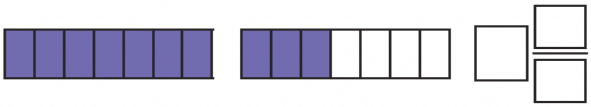
- TASK 1: Complete column A and B on page 81 in your Maths on Target Year 4 Book. →
- TASK 2: Complete the following on this sheet or in your maths book:



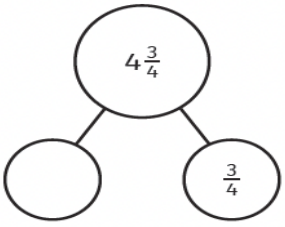
1) Identify the mixed number shown by each bar model.

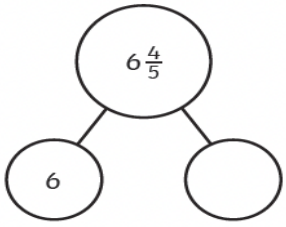
a) 

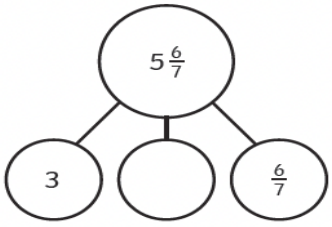
b) 

c) 

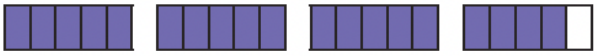
2) Copy and complete the part-whole models.

a) 

b) 

c) 

3) Use the bar model to help you complete the additions.



a) $3\frac{1}{5} + \square = 3\frac{4}{5}$

b) $\square + 1\frac{2}{5} = 3\frac{4}{5}$

4) Find the missing numbers.

a) $3 + \square = 3\frac{2}{3}$

b) $5\frac{\square}{4} + \frac{2}{4} = 5\frac{3}{4}$

c) $2\frac{2}{6} + \square = 2\frac{5}{6}$

d) $\frac{3}{7} + \square = 7\frac{5}{7}$

Game: https://phet.colorado.edu/sims/html/build-a-fraction/latest/build-a-fraction_en.html

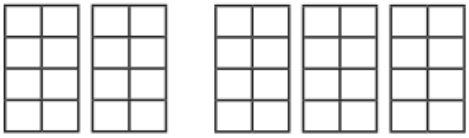
LO – I can compare and order mixed numbers

- Following on from the video lesson, you are going to be working through different questions about fractions bigger than one whole.

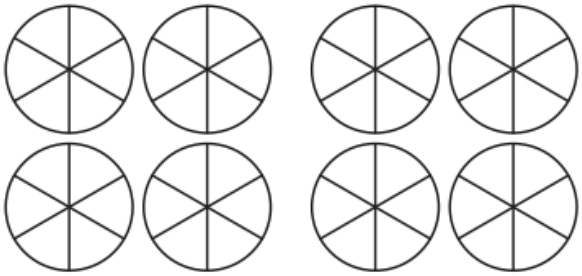
- TASK: Complete the following questions either on this sheet or in your maths book:

1) Shade the models to represent the mixed numbers.
Compare the mixed numbers by inserting < or > to complete the statement.

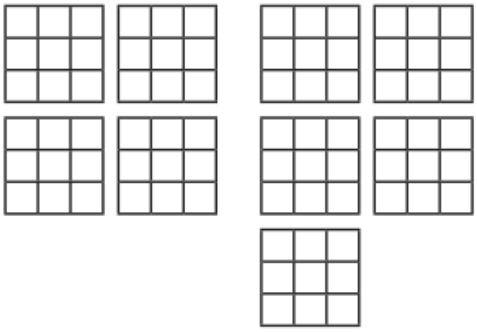
a) $1\frac{7}{8}$ ◯ $2\frac{2}{8}$



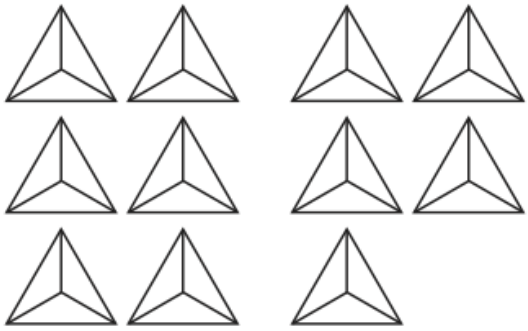
b) $3\frac{4}{6}$ ◯ $3\frac{5}{6}$



c) $4\frac{3}{9}$ ◯ $4\frac{4}{9}$

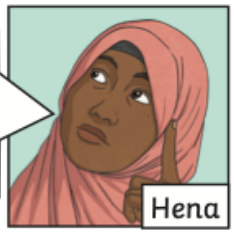


d) $5\frac{2}{3}$ ◯ $4\frac{1}{3}$



2) $3\frac{1}{12} < 2\frac{11}{12}$

$\frac{11}{12}$ is greater than $\frac{1}{12}$, so $2\frac{11}{12}$ is the greater mixed number.



Is Hena correct? Explain your answer.

_____

_____

_____

_____

3) Order the mixed numbers.

a) $3\frac{4}{5}$ $1\frac{2}{5}$ $2\frac{4}{5}$ $2\frac{3}{5}$ $3\frac{1}{5}$

smallest greatest

b) $8\frac{1}{8}$ $9\frac{2}{8}$ $9\frac{6}{8}$ $8\frac{7}{8}$ $7\frac{7}{8}$

greatest smallest

4) Use the clues given by the children to identify and order the mixed numbers.

My mixed number has 5 wholes and 4 sixths.

Mine has 2 more wholes and 1 more sixth than Ruby.

Mine has the same number of wholes as Anton but 2 less sixths.

My mixed number has 5 wholes and 3 sixths.

smallest greatest

5) Find three possible mixed numbers to complete each sequence.

$2\frac{1}{9} < 2\frac{3}{9} < \square\!\!\square < 2\frac{8}{9}$

$9\frac{9}{10} > \square\!\!\square > 9\frac{3}{9} > 9\frac{1}{9}$

Game: https://wordwall.net/resource/9752357/maths/fractions-picture-and-words-match-up

LO – I can convert mixed numbers to improper fractions

Following on from the video lesson, you are going to be working through the following questions converting mixed numbers to improper fractions.

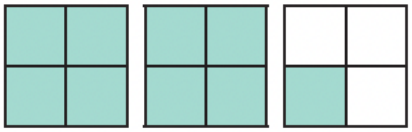
TASK: Complete the following questions either on this sheet or in your maths book:

1) Use the sentence stems to help you convert the mixed numbers to improper fractions.

a) The whole number in this mixed number is _____.

2 wholes are the same as _____ quarters.

There is _____ extra quarter.



$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$

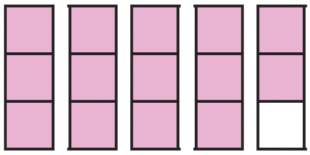
The improper fraction is $\frac{\square}{\square}$.

$2\frac{1}{4} = \frac{\square}{\square}$

b)

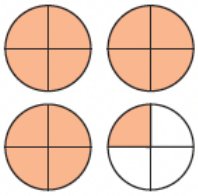
$2\frac{4}{5} = \frac{\square}{\square}$

c)



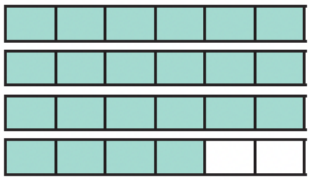
$4\frac{2}{3} = \frac{\square}{\square}$

d)



$3\frac{1}{4} = \frac{\square}{\square}$

e)



$3\frac{4}{6} = \frac{\square}{\square}$

2) Match the correct improper fraction to the bar model, to complete the conversion.

a)

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

$\frac{7}{3}$ $\frac{9}{3}$ $\frac{3}{3}$ $\frac{7}{2}$

$2\frac{1}{3} = \frac{\square}{\square}$

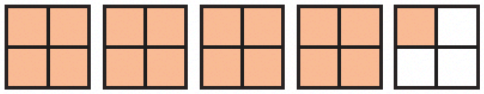
b)

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

$\frac{5}{4}$ $\frac{14}{4}$ $\frac{8}{4}$ $\frac{12}{4}$

$3\frac{2}{4} = \frac{\square}{\square}$

1) Use the sentence stems to help you convert the mixed numbers to improper fractions.



The whole number in this mixed number is _____.

4 wholes are the same as _____ quarters.

There is _____ extra quarter.

$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$

The improper fraction is $\frac{\square}{\square}$.

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

2) Match the correct improper fraction to the bar model, to complete the conversion.

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

$\frac{12}{3}$ $\frac{11}{3}$ $\frac{9}{3}$ $\frac{7}{2}$

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

3) Convert these mixed numbers to improper fractions using Jin's method.

I can multiply the whole number by the denominator and then add on the extra fractional parts.

1. 3 x 5 = 15
2. 15 + 2 = 17
3. The improper fraction is 17 fifths.

$3\frac{2}{5} = \frac{17}{5}$

a) $2\frac{2}{5} = \frac{\square}{\square}$ **b)** $3\frac{4}{5} = \frac{\square}{\square}$ **c)** $4\frac{4}{5} = \frac{\square}{\square}$

4) Sara is trying to convert $6\frac{2}{5}$ to an improper fraction. What mistake has she made? Explain what she should do to make it correct.

I can use my times tables to help me convert mixed numbers. 5 × 2 = 10 and then add 6 extra.

$6\frac{2}{5} = \frac{16}{5}$

_____

_____

_____

Game: https://wordwall.net/resource/7471876/maths/improper-fractions-and-mixed-numbers