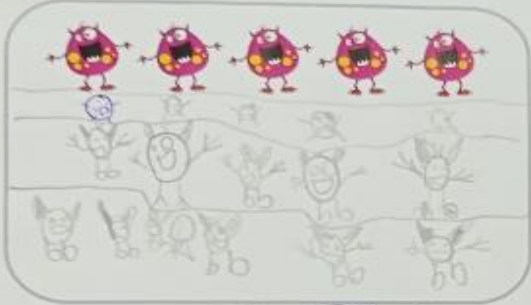


1. Here is one quarter of a group of monsters.

How many are there in the whole group?

Tip: it might help to draw the other monsters.

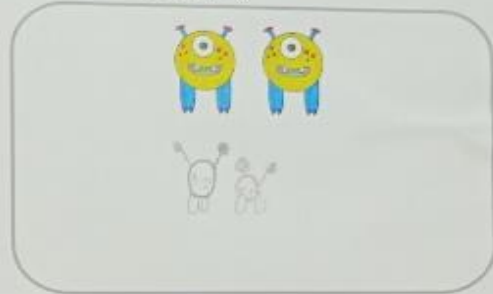


Total: ~~5~~ ~~10~~ ~~15~~ 20 ✓

2. Here is one quarter of a group of monsters.

How many are there in the whole group?

Tip: it might help to draw the other monsters.



Total: 8 ✓

Handwritten notes on a page showing fraction comparisons and conversions:

- ① $\frac{5}{9}$ or $\frac{1}{2} = \frac{5}{9}$ or $\frac{4}{8}$
- ② $\frac{3}{5}$ or $\frac{7}{10} = \frac{6}{10}$ or $\frac{7}{10}$
- ③ $\frac{1}{2}$ or $\frac{5}{6} = \frac{11}{12}$ or $\frac{10}{12}$
- ④ $\frac{3}{4}$ or $\frac{7}{12} = \frac{3}{4}$ or $\frac{3}{4}$
- ⑤ $\frac{2}{5}$, $\frac{5}{10}$, $\frac{7}{10}$, $\frac{3}{5}$
- ⑥ $\frac{3}{4}$, $\frac{8}{12}$, $\frac{10}{12}$, $\frac{1}{4}$
- ⑦ $\frac{3}{4}$, $\frac{6}{4}$, $\frac{1}{4}$, $\frac{1}{4}$

Additional notes: 28.11.23, I can continue to compare and order equivalent fractions.

Tenths

1) How many tenths are being shown by each diagram below?

Answers: $\frac{5}{10}$, $\frac{2}{10}$, $\frac{3}{10}$

2) Use the diagram below, to answer the following questions.

What fraction of the shape is grey? $\frac{3}{10}$ ✓

What fraction of the shape is red? $\frac{5}{10}$ ✓

What fraction of the shape is yellow? $\frac{2}{10}$ ✓

What fraction of the shape is not shaded? $\frac{1}{10}$ ✓

Tenths

3) Complete the part-whole diagrams below.

a) $\frac{8}{10}$ is composed of $\frac{3}{10}$ and $\frac{5}{10}$.


b) $\frac{10}{10}$ is composed of $\frac{6}{10}$ and $\frac{4}{10}$. $\frac{6}{10}$ is composed of $\frac{2}{10}$ and $\frac{4}{10}$.


4) A child has walked from school back to their home. They have travelled 8 tenths of their journey. Estimate how many tenths they have travelled so far.


How many tenths of the journey do they have left to get to home? 14


I can find fractions of shapes.


Colour in one part of the shape.
Write the fraction shown.


1  $\frac{1}{2}$ ✓


2  $\frac{1}{6}$ ✓


3  $\frac{1}{5}$ ✓

4  $\frac{1}{4}$ ✓


5  $\frac{2}{3}$ ✓


6  $\frac{3}{8}$ ✓


7  $\frac{2}{5}$ ✓


8  $\frac{2}{3}$ ✓


Colour in the fraction shown.


9  $\frac{3}{10}$ ✓


10  $\frac{3}{4}$ ✓


11  $\frac{1}{3}$ ✓

12  $\frac{3}{12}$ ✓

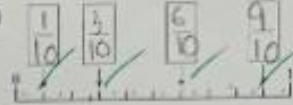
13  $\frac{4}{5}$ ✓

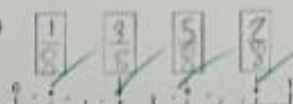
14  $\frac{7}{10}$ ✓

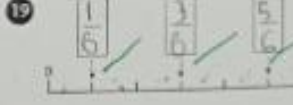
15  $\frac{3}{6}$ ✓


16  $\frac{3}{6}$ ✓

Write the fraction shown in each box.

17  $\frac{1}{10}$ ✓

18  $\frac{1}{5}$ ✓


19  $\frac{1}{6}$ ✓

20  $\frac{1}{12}$ ✓

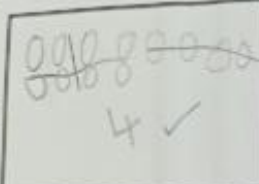
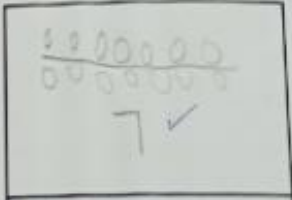
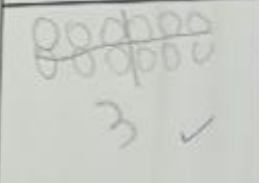
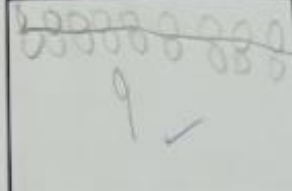
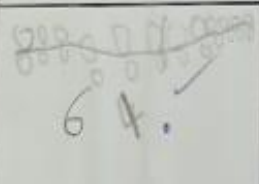
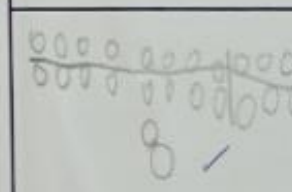
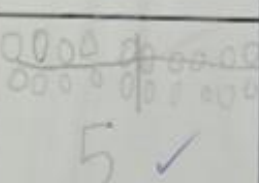
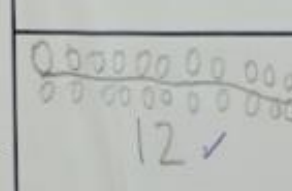
25.03.23 halves and quarters

Find the fractions of these numbers. Draw pictures to show your thinking.
Here is an example:

$\frac{1}{2}$ of 12 = 6



Now it's your turn!

$\frac{1}{2}$ of 8 =		$\frac{1}{2}$ of 14 =	
$\frac{1}{4}$ of 12 =		$\frac{1}{2}$ of 18 =	
$\frac{1}{4}$ of 24 =		$\frac{1}{4}$ of 32 =	
$\frac{1}{4}$ of 20 =		$\frac{1}{2}$ of 24 =	

WALT: multiply fractions

$$1. \frac{2}{20} \times \frac{4}{5} = \frac{8}{100} \text{ or } \frac{2}{25} \quad 12. 5\frac{4}{7} \times \frac{2}{9} = \frac{78}{9} \text{ or } 1\frac{15}{9} \text{ or } 1\frac{5}{3}$$

$$2. \frac{2}{5} \times \frac{3}{5} = \frac{6}{25} \text{ or } \frac{3}{12.5} \quad 14. 2\frac{2}{10} \times \frac{3}{4} = \frac{24}{20} \text{ or } 1\frac{24}{20} \text{ or } 1\frac{6}{5}$$

$$3. \frac{10}{100} \times \frac{1}{10} = \frac{10}{1000} \text{ or } \frac{1}{100} \text{ or } \frac{1}{50} \quad 15. 3\frac{7}{11} \times \frac{5}{8} = \frac{205}{88} \text{ or } 2\frac{3}{11}$$

$$4. \frac{1}{2} \times \frac{2}{3} = \frac{2}{6} \text{ or } \frac{1}{3}$$

$$6. \frac{2}{7} \times \frac{5}{12} = \frac{10}{84} \text{ or } \frac{5}{42}$$

$$\frac{99^{29}}{100^{22}} \times \frac{2^{20}}{9^{29}} = \frac{11 \times 1}{50 \times 1} = \frac{11}{50}$$

$$8. \frac{15}{20} \times \frac{3}{4} = \frac{45}{80} \text{ or } \frac{9}{16} \quad 16. 3\frac{27}{32} \times \frac{4}{9} = \frac{3 \times 4}{2 \times 8} = \frac{12}{16} = \frac{3}{4}$$

$$7. \frac{7}{8} \times \frac{3}{7} = \frac{21}{56} \text{ or } \frac{3}{8} \text{ or } \frac{1}{3}$$

$$3\frac{3}{8} \times \frac{4}{9} = \frac{27}{8} \times \frac{4}{9}$$

$$5. \frac{5}{100} \times \frac{30}{600} = \frac{150}{60000} \text{ or } \frac{1}{400} \text{ or } \frac{1}{40}$$

$$17. 2\frac{18}{12} \times \frac{4}{3} = \frac{54}{36} = \frac{3}{2}$$

$$6. \frac{7}{8} \times \frac{1}{11} = \frac{7}{88} \text{ or } \frac{1}{15} \text{ or } \frac{2}{11}$$

$$13. 5\frac{1}{4} \times \frac{6}{7} = \frac{126}{28} \text{ or } 4\frac{6}{7} \text{ or } 4\frac{1}{7}$$

$$10. 3\frac{3}{5} \times \frac{1}{16} = \frac{18}{80} \text{ or } \frac{9}{40}$$

$$9. \frac{2^{20}}{3^3} \times \frac{9^3}{1000} = \frac{2 \times 3}{1 \times 1} = 6$$

$$11. 2\frac{1}{3} \times \frac{2}{9} = \frac{20}{15} \text{ or } \frac{4}{3} \text{ or } 1\frac{1}{3}$$

$$20. 2\frac{4}{9} \times \frac{5}{11} = \frac{110}{99} \text{ or } 1\frac{11}{99}$$

$$11. \frac{1}{2} \times \frac{1}{12} = \frac{1}{24} \text{ or } \frac{1}{24}$$

WALT: fraction division

$$1. 5\frac{3}{5} \div 4 = \frac{28}{5} \times \frac{1}{4} = \frac{28}{20} \text{ or } \frac{7}{5} \text{ or } 1\frac{2}{5}$$

$$2. 7\frac{1}{2} \div 5 = \frac{15}{2} \times \frac{1}{5} = \frac{15}{10} \text{ or } \frac{3}{2} \text{ or } 1\frac{1}{2}$$

$$3. 2\frac{4}{7} \div 6 = \frac{18}{7} \times \frac{1}{6} = \frac{18}{42} \text{ or } \frac{3}{7}$$

$$8. 4\frac{3}{8} \div 7 = \frac{35}{8} \times \frac{1}{7} = \frac{5}{8} \times \frac{1}{1} = \frac{5}{8}$$

$$5. 2\frac{2}{11} \div 3 = \frac{20}{11} \times \frac{1}{3} = \frac{10}{11} \times \frac{1}{1} = \frac{10}{11}$$

$$6. 7\frac{1}{9} \div 12 = \frac{36}{9} \times \frac{1}{12} = \frac{3}{5} \times \frac{1}{1} = \frac{3}{5}$$

$$7. 3\frac{5}{9} \div 2 = \frac{32}{9} \times \frac{1}{2} = \frac{16}{9} \times \frac{1}{1} = \frac{16}{9} \text{ or } 1\frac{7}{9}$$

21324

Find halves and quarters.



$\frac{1}{4}$ of 12

3 ✓



$\frac{1}{2}$ of 16

8 ✓



$\frac{1}{4}$ of 16

4 ✓



$\frac{1}{2}$ of 20

10 ✓



$\frac{1}{2}$ of 18

9 ✓

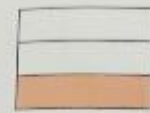


$\frac{1}{4}$ of 20

5 ✓

Unit fractions

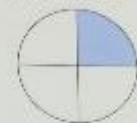
1a. Circle the unit fraction shown by the shaded part of the shape.



- A. $\frac{1}{2}$ B. $\frac{1}{3}$ ✓ C. $\frac{1}{4}$



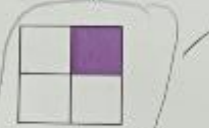
1b. Circle the unit fraction shown by the shaded part of the shape.



- A. $\frac{1}{2}$ B. $\frac{1}{3}$ C. $\frac{1}{4}$ ✓



2a. Which image represents $\frac{1}{4}$?



- A B ✓



2b. Which image represents $\frac{1}{2}$?



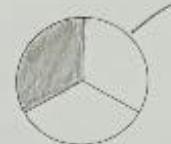
- A ✓ B



3a. Shade the given fraction for each shape.



$\frac{1}{2}$



$\frac{1}{3}$



3b. Shade the given fraction for each shape.



$\frac{1}{4}$



$\frac{1}{3}$



a. Match the image to the unit fraction.



$\frac{1}{4}$ ✓



$\frac{1}{2}$ ✓



$\frac{1}{3}$ ✓

b. Match the image to the unit fraction.



$\frac{1}{3}$ ✓



$\frac{1}{4}$ ✓

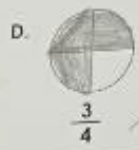


$\frac{1}{2}$ ✓

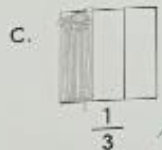
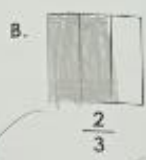
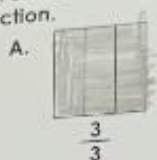


26.3.24 Non-unit fractions

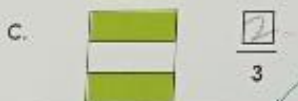
1a. Shade the parts to represent each fraction.



1b. Shade the parts to represent each fraction.



2a. Label the fractions shown below.

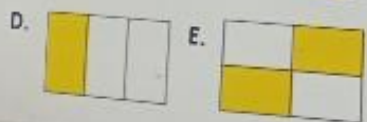
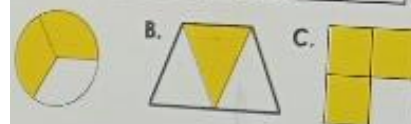


2b. Label the fractions shown below.



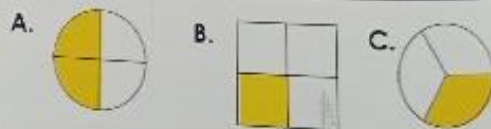
3a. Sort the fractions into the table below.

Unit fractions	Non-Unit fractions



3b. Sort the fractions into the table below.

Non-Unit fractions	Unit fractions



Count in Fractions

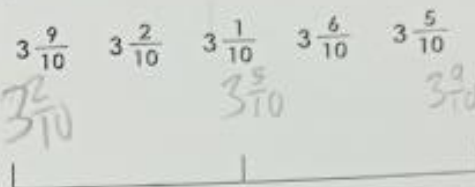
1. A sequence decreases by $\frac{2}{9}$ each time.

Shade the bar models to show the next two fractions in the sequence.



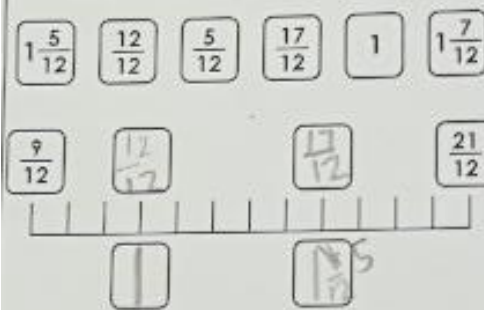
Write the two fractions.

4. Choose three fractions to create a sequence which increases by $\frac{4}{10}$ each time.



Place the fractions on the number line.

2. Use the fraction cards to fill in the missing fractions on the number line.



5. Grace and Tim are working out the next number in the following sequence:

$3, 2\frac{5}{8}, 2\frac{2}{8}$



The next number will be $1\frac{7}{8}$.

Grace

The next number will be $\frac{15}{8}$.

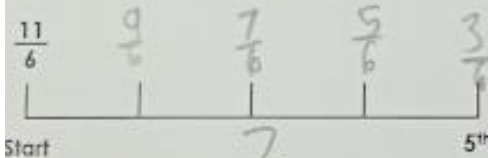


Tim

Is either Grace or Tim correct? Explain your answer.

Handwritten: Tim is correct

3. A fraction sequence starts at $\frac{11}{6}$ and decreases by $\frac{2}{6}$ each time.



What is the fifth number in the sequence?

Handwritten: $3\frac{3}{6}$

6. Natalie is thinking of a fraction sequence.



My sequence starts with a number between $1\frac{3}{11}$ and $2\frac{9}{11}$. The number increases by $\frac{4}{11}$ each time.

Write the first four fractions in Natalie's sequence. Find a second possibility.