## Fractions

## End-of-Strand Assessment

Name: $\qquad$ Date: $\qquad$

1. Using mental methods, complete these calculations.

$$
\frac{8}{10}-\frac{5}{10}=\frac{\square}{\square}
$$



2. a) Count backwards along the number line to fill in the missing decimals.

b) Count forwards along the number line, in fifths, to fill in the missing numbers.

3. In each bar model, there are missing digits shown by letters. A represents the same digit whenever it is used, as does B. Identify the digits represented by A and $B$ to make these bar models correct.

A: $\square$


B: $\square$
4. a) Complete the equivalent fractions represented by the diagrams.

b) Sort the fractions below into the table according to whether they are equivalent or not equivalent to the fractions shown above.

| $\frac{9}{15}$ | $\frac{4}{7}$ | $\frac{18}{30}$ | $\frac{120}{200}$ | $\frac{15}{20}$ | $\frac{30}{50}$ | $\frac{40}{60}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| Fractions Equivalent to <br> the Ones Shown Above | Fractions Not <br> Equivalent to the Ones <br> Shown Above |
| :--- | :---: |
|  |  |
|  |  |


5. Circle the mathematical statements that show the correct equivalent decimal numbers and fractions.
$0.97=\frac{97}{10}=\frac{970}{100}$
$0.71=\frac{71}{100}=\frac{710}{1000}$
$0.4=\frac{4}{10}=\frac{400}{1000}$
$2.4=\frac{24}{10}=\frac{240}{1000}$

$$
2.4=\frac{21}{10}=\frac{2}{1000}
$$

6. This triangle shows an equivalent fraction, decimal and percentage.

Complete these triangles

in the same way.

7. Round these numbers to the nearest whole number and to 1 decimal place.

|  | Rounded to <br> the Nearest <br> Whole Number | Rounded to 1 <br> Decimal Place |
| :---: | :---: | :---: |
| 6.46 |  |  |
| 30.07 |  |  |
| 24.82 |  |  |

8. Order these fractions from smallest to greatest.

ascending order
9. A group of friends have some money to spend between them in a sweet shop. Write the amount that each child can spend as an equivalent percentage and decimal.
a) Bob: $\frac{1}{4}=\square \%=\square$


Faisa: $\frac{1}{2}=\square \%=\square$

b) What percentage of the money do they have left when they have all spent their money?
$\square$
\%
c) Dina says that, together, Kenny, Bob and Faisa have spent $\frac{3}{4}$ of the money. Is she correct? Explain your reasoning.
10. Use addition or subtraction to complete the calculations.

$9.814+2.28=$ $\square$
$5-4.027=$ $\square$
$0.508+$ $\square$ $=1$

11. Soil has been measured out for different gardening projects and has been recorded in different ways. Complete the missing numbers in the table to show the equivalent quantities.

| Project | Grams | Kilograms <br> (Decimal) | Kilograms <br> (Fraction) |
| :---: | :---: | :---: | :---: |
| A | $\square \mathrm{g}$ | 4.5 kg | $4 \frac{1}{2} \mathrm{~kg}$ |
| B | $\square \mathrm{g}$ | 5.18 kg | $5 \frac{180}{1000} \mathrm{~kg}$ |
| C | 9060 g | $\square \mathrm{~kg}$ | $\square \overline{\overline{1000}} \mathrm{~kg}$ |
| D | $\square \mathrm{g}$ | 12.35 kg | $\square \bar{\square} \mathrm{~kg}$ |


12. A pattern is made with flowers.
a) What is the total fraction shaded orange in the pattern below? Write your answer as a mixed number.

b) What is the total fraction shaded orange in this pattern? Write your answer as a mixed number.

13. Label each column of the table with the correct heading (either Mixed Numbers or Improper Fractions). Then, complete the table, writing the answer to each calculation in both forms.

14. a) Use < or > to compare each pair of decimal numbers.

b) Write these numbers in descending order.

descending order
15. Four phones are reviewed by different numbers of people. The percentages of good reviews are shown below. How many people wrote a good review for each product?

Phone 1: $50 \%$ of 160 people $=\square$ people
Phone 2: $\frac{1}{4}$ of 88 people $=\square$ people
Phone 3: 75\% of 200 people $=\square$ people
Phone 4: $\frac{2}{5}$ of 150 people $=\square$ people


