

Mathematical Concepts



1. Write the reciprocal for the fraction $\frac{23}{7}$.

2. Write the numerator which would make the pair of fractions equivalent.

$$\frac{\quad}{6} = \frac{12}{18}$$

3. Write the numbers in order from **least to greatest**.

616.12

695.98

23.765

3.234

4. Which one of the following numbers is a **factor of 12**

3, 5, 7, 8, 24

5. Use the symbol to make the following number sentence true.

< = >

a. 23 789 78 907

b. 9×5 5×9

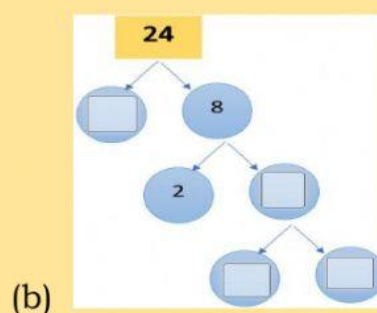
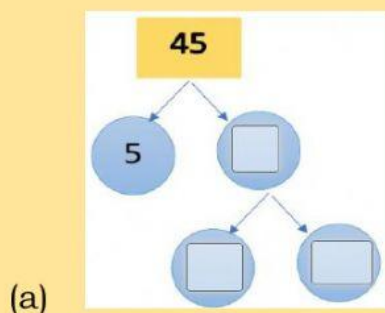
c. 245.45 254.35

6. Write $2\frac{3}{4}$ as improper fraction.

7. Write the name of the customary unit that would best measure the following:

- (a) The capacity of a bath tub
- (b) Measuring the distance from New Providence to your favorite Family Island, what unit of length would be used?

8. Use the factor tree to answer (a) and (b).



9. Use the following numbers **only once** to identify the following:

35 23 -4 144 58

- a. Square number
- b. Composite number
- c. Integer
- d. Multiple of 7
- e. Prime Number

10. Fill in the missing number:

a) $\frac{5}{20} \begin{matrix} \times 4 \\ \times 4 \end{matrix} = \frac{20}{80}$

c) $\frac{6}{7} \begin{matrix} \times 2 \\ \times 2 \end{matrix} = \frac{\square}{14}$

b) $\frac{8}{12} \begin{matrix} \times 3 \\ \times 3 \end{matrix} = \frac{24}{\square}$

d) $\frac{32}{40} \begin{matrix} \div 4 \\ \div 4 \end{matrix} = \frac{\square}{10}$