Miss Robinson's Maths Group Homework

Autumn Week 4

Remember to set your work out clearly and write in pencil.

Please try all questions.

Please DO NOT print any of this homework. Write answers directly into your Homework Book and include any working out.

Arithmetic Warm Up

Order the following fractions from smallest to largest

Show ALL working out.

$\frac{17}{48}$

$\frac{11}{16}$

$\frac{7}{8}$

$\frac{3}{5}$

$\frac{1}{3}$

LI: to be able to multiply fractions

From this week's lessons, remember that

$\frac{3}{7} \times \frac{4}{5} = \frac{12}{35}$

We simple multiply the two numerators then multiply the two denominators.

When we are multiplying by an integer, turn this to a fraction so:

$8 = \frac{8}{1}$ $16 = \frac{16}{1}$ $9 = \frac{9}{1}$ $36 = \frac{36}{1}$

Calculate the following. Give your answer in the simplest form.

1. $\frac{3}{4} \times \frac{1}{3} =$

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

3. $\frac{2}{5} \times \frac{1}{3} =$

4. $\frac{7}{12} \times \frac{2}{3} =$

5. $\frac{4}{5} \times \frac{1}{6} =$

6. $\frac{1}{4} \times \frac{5}{7} =$

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

8. $\frac{4}{9} \times \frac{1}{4} =$

9. $\frac{5}{6} \times \frac{3}{8} =$

10. $\frac{2}{5} \times \frac{5}{9} =$

Calculate the following. Give your answer in the simplest form.

1. $\frac{5}{8} \times \frac{1}{3} =$

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

3. $\frac{6}{11} \times \frac{4}{7} =$

4. $\frac{1}{12} \times \frac{2}{3} =$

5. $\frac{4}{25} \times \frac{1}{6} =$

6. $\frac{3}{4} \times \frac{17}{18} =$

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

8. $\frac{4}{9} \times \frac{1}{4} =$

9. $\frac{1}{6} \times \frac{3}{7} =$

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

LI: to be able to multiply mixed numbers and fractions

1. $1\frac{1}{2} \times 2\frac{2}{5} =$

2. $3\frac{1}{3} \times 1\frac{1}{5} =$

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

4. $2\frac{1}{5} \times 3\frac{3}{4} =$

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

6. $1\frac{1}{6} \times 2\frac{1}{8} =$

7. $2\frac{6}{7} \times 1\frac{1}{9} =$

LI: to be able to convert divide fractions by integers

1. $\frac{3}{5} \div 2 =$

2. $\frac{1}{2} \div 2 =$

3. $\frac{3}{4} \div 6 =$

4. $\frac{5}{6} \div 2 =$

5. $\frac{5}{8} \div 4 =$

6. $\frac{1}{4} \div 7 =$

7. $\frac{7}{8} \div 3 =$

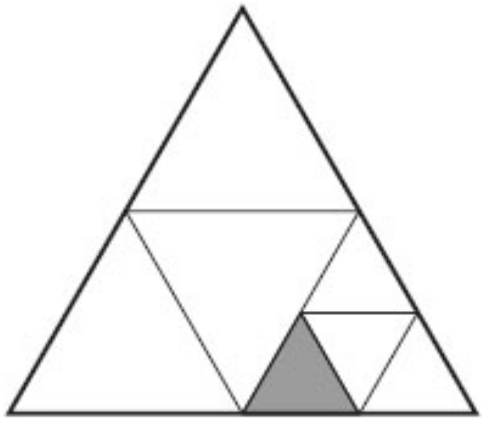
8. $\frac{7}{9} \div 5 =$

9. $\frac{5}{12} \div 6 =$

10. $\frac{2}{5} \div 4 =$

LI: to be able to use fractions in context

This shape is made from equilateral triangles.



What fraction of the **whole** shape is shaded?

Mrs Mills has **940** seeds to plant into trays.

She plants **12** seeds in each tray.

The last tray is not full.

What **fraction** of the last tray is filled?

LI: to be able to use fractions in context

$\frac{1}{2} \times \frac{5}{6}$ is greater than the value of $\frac{1}{3} \times \frac{7}{8}$

Explain how you know.

A cinema sells tickets at three different prices.

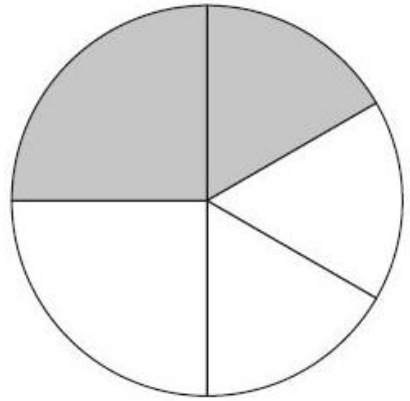
- $\frac{1}{20}$ of the tickets are price A.
- $\frac{3}{5}$ of the tickets are price B.
- The rest of the tickets are price C.

What fraction of the tickets are price C?

Write the missing fraction to make this **addition** correct.

$$\frac{2}{3} + \square = \frac{5}{6}$$

In this circle, $\frac{1}{4}$ and $\frac{1}{6}$ are shaded.



What fraction of the whole circle is **not** shaded?

Remember to bring any questions about the work into Monday's lesson.

Have a wonderful weekend!