

Worksheet 1 |

Lower Secondary

Stage (6-8)

1st Semester | 2023-2024

Chapter: 1

Subject: Math

Objectives:

To revise adding and subtracting fractions

To revise multiplying and dividing fractions

Q1: Work out the answers to these without using a calculator. Give your answer in simplest form.

Q1: Work out the answers to these without using a calculator. Give your answer in simplest form.

$$\frac{31 \times 4 - \frac{3}{2}}{2 \times 1^{\frac{3}{2}}} = \frac{5}{2} = 2\frac{1}{2}$$
b) $11 + 7\frac{1}{4} = \frac{18}{11 + 7} = 18$

$$18 + \frac{1}{4} = 18\frac{1}{4}$$
c) $5\frac{1}{4} + 3\frac{1}{16} + 4\frac{3}{8} = \frac{1}{16} + \frac{3}{4} = \frac{2x}{4} + \frac{12x^{\frac{1}{2}}}{5x^{\frac{1}{2}}} = \frac{5x^{\frac{1}{2}}}{5x^{\frac{1}{2}}} = \frac{5x^{\frac{1}{2}}}{5x^{\frac{1}{2}}} = \frac{2x}{4} + \frac{12x^{\frac{1}{2}}}{5x^{\frac{1}{2}}} = \frac{149}{60}$

$$12 + \frac{11}{16} = 12\frac{11}{16}$$
e) $\frac{3}{7} + \frac{2}{3} \times \frac{14}{8} = \frac{1}{16}$

$$12 + \frac{11}{16} = 12\frac{11}{16}$$
f) $3\frac{1}{2} - 2\frac{1}{4} \times \frac{4}{3} = \frac{3}{4}$

$$\frac{2}{3} \times \frac{14}{3} = \frac{1}{3} \times \frac{14}{3} = \frac{3}{4}$$

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

$$\frac{3}{4} \times$$





edexcel III CIS 1









g)
$$1\frac{3}{4} \div 2\frac{1}{3} = \frac{7}{4} \div \frac{7}{3} = \frac{7}{4} \times \frac{3}{4} = \frac{3}{4}$$
i) $7\frac{7}{8} \div 5\frac{1}{12} = \frac{3}{4}$

h)
$$\frac{5}{8} \times \frac{1}{2} = \frac{5}{16}$$

$$\frac{63}{8} \div \frac{61}{12}$$

$$\frac{63}{8} \times \frac{3}{12} = \frac{189}{122} = 1 \cdot \frac{67}{122}$$

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

$$\frac{10}{3} \stackrel{?}{=} \frac{15}{2} = \frac{15}{2}$$

$$\frac{10}{3} \stackrel{?}{=} \frac{15}{2} = \frac{19}{27}$$

$$\frac{3}{3} \stackrel{?}{=} \frac{12}{27} + \frac{2}{27} = \frac{19}{27}$$

$$\frac{12}{27} + \frac{2}{27} = \frac{19}{27}$$

1) $3\frac{1}{3} \div 7\frac{1}{2} + \frac{2}{27} =$

- Q2)
 - Q2) Chloe, Daisy and Emily share some money.

Chloe receives
$$\frac{5}{8}$$
 of the money.

Daisy receives
$$\frac{1}{6}$$
 of the money.

Show that Emily receives
$$\frac{5}{24}$$
 of the money.

$$\frac{3 \times 5}{3 \times 8} + \frac{1 \times 4}{6 \times 4}$$

$$\frac{15}{24} + \frac{1}{24} = \frac{19}{24}$$

$$1 - \frac{19}{24} = \frac{24}{24} - \frac{19}{24} = \frac{5}{24}$$

Q3) $\frac{7}{12}$ of the passengers on a coach are boys.

The rest of the passengers are girls.

35 of the passengers are boys.

How many of the passengers are girls?

$$\frac{7}{12} = \frac{35}{x}$$
 $x = 12x5 = 60$ Passengers.

Q4) $\frac{3}{4}$ of Joshua's books are paperbacks.

 $\frac{4}{9}$ of his paperback books are science fiction.

What fraction of his books are science fiction paperbacks?

Give your fraction in its simplest form.

Q5) $\frac{5}{9}$ of the students in a school are girls.

 $\frac{3}{5}$ of these girls own a bicycle.

 $\frac{3}{4}$ of the boys in the school own a bicycle.

What fraction of the students in the school own a bicycle?

Give your fraction in its simplest form.

A bag contains only red beads, white beads and blue beads.

 $\frac{5}{12}$ of the beads are red.

 $\frac{3}{8}$ of the beads are white.

Work out the smallest possible number of beads that the bag could contain.