

# SHARP

## Worksheet 13 Memorandum: Common Fractions

### Grade 8 Mathematics

1. Convert these mixed number fractions to improper fractions:

a)  $2\frac{19}{25} = \frac{69}{25}$

b)  $1\frac{3}{7} = \frac{10}{7}$

c)  $2\frac{6}{9} = \frac{24}{9}$

d)  $3\frac{1}{3} = \frac{10}{3}$

e)  $1\frac{2}{5} = \frac{7}{5}$

f)  $8\frac{3}{4} = \frac{35}{4}$

g)  $9\frac{11}{12} = \frac{119}{12}$

h)  $7\frac{3}{8} = \frac{59}{8}$

i)  $4\frac{1}{6} = \frac{25}{6}$

j)  $3\frac{2}{6} = \frac{20}{6}$

k)  $4\frac{10}{12} = \frac{58}{12}$

l)  $7\frac{3}{10} = \frac{73}{10}$

2. Convert these improper fractions to mixed number fractions:

a)  $\frac{18}{15} = 1\frac{1}{5}$

b)  $\frac{89}{7} = 12\frac{5}{7}$

c)  $\frac{27}{11} = 2\frac{5}{11}$

d)  $\frac{53}{5} = 10\frac{3}{5}$

e)  $\frac{44}{3} = 14\frac{2}{3}$

f)  $\frac{70}{30} = 2\frac{1}{3}$

g)  $\frac{61}{6} = 10\frac{1}{6}$

h)  $\frac{93}{7} = 13\frac{2}{7}$

i)  $\frac{60}{8} = 7\frac{1}{2}$

j)  $\frac{68}{3} = 22\frac{2}{3}$

k)  $\frac{328}{25} = 13\frac{3}{25}$

l)  $\frac{9933}{1000} = 9\frac{933}{1000}$

3. Find the simplest form of these fractions:

a)  $\frac{77}{22} = \frac{7}{2}$  or  $3\frac{1}{2}$

b)  $\frac{8}{4} = 2$

c)  $\frac{16}{24} = \frac{2}{3}$

d)  $\frac{81}{90} = \frac{9}{10}$

e)  $\frac{36}{42} = \frac{6}{7}$

f)  $\frac{45}{60} = \frac{3}{4}$

g)  $\frac{11}{121} = \frac{1}{11}$

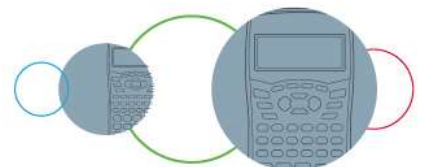
h)  $\frac{30}{90} = \frac{1}{3}$

i)  $\frac{25}{100} = \frac{1}{4}$

j)  $\frac{21}{42} = \frac{1}{2}$

k)  $\frac{100}{250} = \frac{2}{5}$

l)  $\frac{93}{96} = \frac{31}{32}$



4. Complete the following table by filling in the missing values:

Common Fraction in Simplest Form	Percentage	Decimal
$\frac{5}{3}$	166,67%	1.666
$\frac{9}{10}$	90%	0,9
$\frac{1}{100}$	1%	0.01
$\frac{11}{12}$	91,67%	0,91666
$\frac{3}{4}$	75%	0,75
$2\frac{1}{2}$	250%	2.5
$\frac{11}{40}$	27,5%	0,275
$\frac{21}{100}$	21%	0,21
$\frac{1}{8}$	12,5%	0.125

5. Find the following. (Show all your steps and give in simplest form):

a)  $\frac{9}{10}$  of 8

$$= \frac{9}{10} \times \frac{8}{1}$$

$$= \frac{9}{5} \times \frac{4}{1}$$

$$= \frac{36}{5} \text{ or } 7\frac{1}{5}$$

b)  $\frac{6}{8}$  of 30

$$= \frac{6}{8} \times \frac{30}{1}$$

$$= \frac{3}{2} \times \frac{15}{1}$$

$$= \frac{45}{2} \text{ or } 22\frac{1}{2}$$

c)  $\frac{9}{8}$  of 64

$$= \frac{9}{8} \times \frac{64}{1}$$

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

$$= 72$$

d)  $\frac{1}{4}$  of 42

$$= \frac{1}{4} \times \frac{42}{1}$$

$$= \frac{1}{2} \times \frac{21}{1}$$

$$= \frac{21}{2} \text{ or } 10\frac{1}{2}$$

e)  $\frac{5}{9}$  of 19

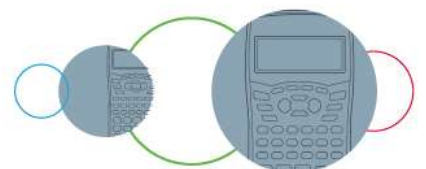
$$= \frac{5}{9} \times \frac{19}{1}$$

$$= \frac{95}{9} \text{ or } 10\frac{5}{9}$$

f)  $\frac{1}{3}$  of  $\frac{4}{5}$

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

$$= \frac{4}{15}$$



$$\begin{aligned} \text{g)} \quad & \frac{2}{5} \text{ of } \frac{1}{5} \\ & = \frac{2}{5} \times \frac{1}{5} \\ & = \frac{2}{25} \end{aligned}$$

$$\begin{aligned} \text{h)} \quad & \frac{4}{9} \text{ of } \frac{1}{3} \\ & = \frac{4}{9} \times \frac{1}{3} \\ & = \frac{4}{27} \end{aligned}$$

$$\begin{aligned} \text{i)} \quad & \frac{3}{6} \text{ of } 47 \\ & = \frac{3}{6} \times \frac{47}{1} \\ & = \frac{141}{6} \text{ or } 23\frac{1}{2} \end{aligned}$$

$$\begin{aligned} \text{j)} \quad & \frac{2}{7} \text{ of } \frac{1}{6} \\ & = \frac{2}{7} \times \frac{1}{6} \\ & = \frac{1}{7} \times \frac{1}{3} \\ & = \frac{1}{21} \end{aligned}$$

$$\begin{aligned} \text{k)} \quad & \frac{3}{8} \text{ of } \frac{4}{9} \\ & = \frac{3}{8} \times \frac{4}{9} \\ & = \frac{1}{2} \times \frac{1}{3} \\ & = \frac{1}{6} \end{aligned}$$

$$\begin{aligned} \text{l)} \quad & 2\frac{1}{3} \text{ of } 93 \\ & = \frac{7}{3} \times \frac{93}{1} \\ & = \frac{7}{1} \times \frac{31}{1} \\ & = 217 \end{aligned}$$

6. Find the answers to the following. Give your answers in simplest fraction form and show all your working out:

$$\begin{aligned} \text{a)} \quad & \frac{3}{6} + \frac{4}{5} \\ & = \frac{15}{30} + \frac{24}{30} \\ & = \frac{39}{30} \\ & = \frac{13}{10} \text{ or } 1\frac{3}{10} \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & 9\frac{2}{7} - 2\frac{1}{2} \\ & = 9\frac{4}{14} - 2\frac{7}{14} \\ & = 8\frac{18}{14} - 2\frac{7}{14} \\ & = 6\frac{11}{14} \end{aligned}$$

$$\begin{aligned} \text{c)} \quad & \frac{3}{7} \times \frac{1}{9} \\ & = \frac{1}{7} \times \frac{1}{3} \\ & = \frac{1}{21} \end{aligned}$$

$$\begin{aligned} \text{d)} \quad & 1\frac{9}{15} + 1\frac{2}{3} - 2\frac{3}{5} \\ & = 1\frac{9}{15} + 1\frac{10}{15} - 2\frac{9}{15} \\ & = 2\frac{19}{15} - 2\frac{9}{15} \\ & = \frac{10}{15} \text{ or } \frac{2}{3} \end{aligned}$$

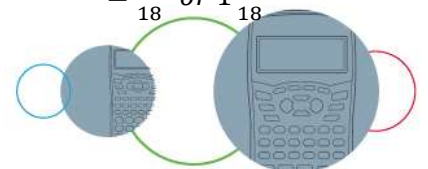
$$\begin{aligned} \text{e)} \quad & 2\frac{1}{4} \times 5\frac{2}{3} \\ & = \frac{9}{4} \times \frac{17}{3} \\ & = \frac{3}{4} \times \frac{17}{1} \end{aligned}$$

$$\begin{aligned} \text{f)} \quad & 2\frac{2}{9} - 1\frac{1}{6} \\ & = 2\frac{4}{18} - 1\frac{3}{18} \\ & = 1\frac{1}{18} \end{aligned}$$

$$\begin{aligned} \text{g)} \quad & \frac{2}{7} + \frac{5}{8} - \frac{1}{4} \\ & = \frac{16}{56} + \frac{35}{56} - \frac{14}{56} \\ & = \frac{37}{56} \end{aligned}$$

$$\begin{aligned} \text{h)} \quad & 1\frac{3}{8} \times 1\frac{8}{11} \\ & = \frac{11}{8} \times \frac{19}{11} \\ & = \frac{1}{8} \times \frac{19}{1} \\ & = \frac{19}{8} \text{ or } 2\frac{3}{8} \end{aligned}$$

$$\begin{aligned} \text{i)} \quad & \frac{10}{9} + \frac{4}{3} - 1\frac{7}{18} \\ & = \frac{20}{18} + \frac{24}{18} - 1\frac{7}{18} \\ & = \frac{44}{18} - \frac{25}{18} \\ & = \frac{19}{18} \text{ or } 1\frac{1}{18} \end{aligned}$$



$$\begin{aligned}
 \text{j)} \quad & 9\frac{3}{4} \times \frac{12}{13} \\
 & = \frac{39}{4} \times \frac{12}{13} \\
 & = \frac{3}{1} \times \frac{3}{1} \\
 & = 9
 \end{aligned}$$

$$\begin{aligned}
 \text{k)} \quad & \frac{6}{8} + 2\frac{1}{16} - 2\frac{5}{8} \\
 & = \frac{12}{16} + 2\frac{1}{16} - 2\frac{10}{16} \\
 & = 2\frac{13}{16} - 2\frac{10}{16} \\
 & = \frac{3}{16}
 \end{aligned}$$

$$\begin{aligned}
 \text{l)} \quad & 5\frac{4}{7} \times \frac{5}{3} \\
 & = \frac{39}{7} \times \frac{5}{3} \\
 & = \frac{13}{7} \times \frac{5}{1} \\
 & = \frac{65}{7} \text{ or } 9\frac{2}{7}
 \end{aligned}$$

7. Divide the following and write your answer in simplest form:

$$\begin{aligned}
 \text{a)} \quad & 3 \div \frac{1}{2} \\
 & = \frac{3}{1} \div \frac{1}{2} \\
 & = \frac{3}{1} \times \frac{2}{1} \\
 & = 6
 \end{aligned}$$

$$\begin{aligned}
 \text{b)} \quad & 5 \div \frac{4}{7} \\
 & = \frac{5}{1} \div \frac{4}{7} \\
 & = \frac{5}{1} \times \frac{7}{4} \\
 & = \frac{35}{4} \text{ or } 8\frac{3}{4}
 \end{aligned}$$

$$\begin{aligned}
 \text{c)} \quad & 9 \div \frac{4}{6} \\
 & = \frac{9}{1} \div \frac{4}{6} \\
 & = \frac{9}{1} \times \frac{6}{4} \\
 & = \frac{54}{4} \text{ or } 13\frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 \text{d)} \quad & 9 \div \frac{9}{10} \\
 & = \frac{9}{1} \div \frac{9}{10} \\
 & = \frac{9}{1} \times \frac{10}{9} \\
 & = \frac{1}{1} \times \frac{10}{1} \\
 & = 10
 \end{aligned}$$

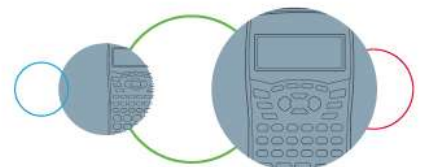
$$\begin{aligned}
 \text{e)} \quad & 8 \div \frac{4}{5} \\
 & = \frac{8}{1} \div \frac{4}{5} \\
 & = \frac{8}{1} \times \frac{5}{4} \\
 & = \frac{2}{1} \times \frac{5}{1} \\
 & = 10
 \end{aligned}$$

$$\begin{aligned}
 \text{f)} \quad & \frac{1}{2} \div \frac{6}{7} \\
 & = \frac{1}{2} \times \frac{7}{6} \\
 & = \frac{7}{12}
 \end{aligned}$$

$$\begin{aligned}
 \text{g)} \quad & \frac{28}{32} \div \frac{7}{8} \\
 & = \frac{28}{32} \times \frac{8}{7} \\
 & = \frac{4}{4} \times \frac{1}{1} \\
 & = 1
 \end{aligned}$$

$$\begin{aligned}
 \text{h)} \quad & \frac{11}{7} \div \frac{121}{49} \\
 & = \frac{11}{7} \times \frac{49}{121} \\
 & = \frac{1}{1} \times \frac{7}{11} \\
 & = \frac{7}{11}
 \end{aligned}$$

$$\begin{aligned}
 \text{i)} \quad & \frac{1}{5} \div \frac{3}{8} \\
 & = \frac{1}{5} \times \frac{8}{3} \\
 & = \frac{8}{15}
 \end{aligned}$$



$$\begin{aligned}
 \text{j)} \quad & \frac{5}{8} \div \frac{5}{6} \\
 & = \frac{5}{8} \times \frac{6}{5} \\
 & = \frac{1}{4} \times \frac{3}{1} \\
 & = \frac{3}{4}
 \end{aligned}$$

$$\begin{aligned}
 \text{k)} \quad & \frac{3}{7} \div \frac{9}{21} \\
 & = \frac{3}{7} \times \frac{21}{9} \\
 & = \frac{1}{1} \times \frac{3}{3} \\
 & = 1
 \end{aligned}$$

$$\begin{aligned}
 \text{l)} \quad & \frac{8}{17} \div \frac{32}{34} \\
 & = \frac{8}{17} \times \frac{34}{32} \\
 & = \frac{1}{1} \times \frac{2}{4} \\
 & = \frac{1}{2}
 \end{aligned}$$

8. Find the answers for the following without using your calculator:

$$\begin{aligned}
 \text{a)} \quad & \sqrt{\frac{25}{64}} \\
 & = \frac{5}{8}
 \end{aligned}$$

$$\begin{aligned}
 \text{b)} \quad & \sqrt{\frac{36}{49}} \\
 & = \frac{6}{7}
 \end{aligned}$$

$$\begin{aligned}
 \text{c)} \quad & \left(\frac{1}{4}\right)^2 \\
 & = \frac{1}{16}
 \end{aligned}$$

$$\begin{aligned}
 \text{d)} \quad & \left(2\frac{1}{3}\right)^3 \\
 & = \left(\frac{7}{3}\right)^3 \\
 & = \frac{343}{27} \text{ or } 12\frac{19}{27}
 \end{aligned}$$

$$\begin{aligned}
 \text{e)} \quad & \left(2\frac{2}{3}\right)^2 \\
 & = \left(\frac{8}{3}\right)^2 \\
 & = \frac{64}{9} \text{ or } 9\frac{1}{9}
 \end{aligned}$$

$$\begin{aligned}
 \text{f)} \quad & \sqrt[3]{\frac{8}{27}} \\
 & = \frac{2}{3}
 \end{aligned}$$

$$\begin{aligned}
 \text{g)} \quad & \left(7\frac{1}{2}\right)^2 \\
 & = \left(\frac{15}{2}\right)^2 \\
 & = \frac{225}{4} \text{ or } 56\frac{1}{4}
 \end{aligned}$$

$$\begin{aligned}
 \text{h)} \quad & \sqrt{\frac{100}{121}} \\
 & = \frac{10}{11}
 \end{aligned}$$

$$\begin{aligned}
 \text{i)} \quad & \sqrt[3]{\frac{1}{125}} \\
 & = \frac{1}{5}
 \end{aligned}$$

$$\begin{aligned}
 \text{j)} \quad & \left(\frac{4}{5}\right)^3 \\
 & = \frac{64}{125}
 \end{aligned}$$

$$\begin{aligned}
 \text{k)} \quad & \left(\frac{1}{4}\right)^3 \\
 & = \frac{1}{64}
 \end{aligned}$$

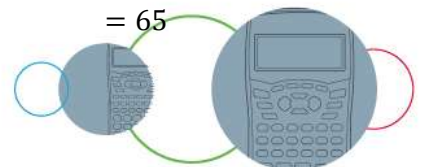
$$\begin{aligned}
 \text{l)} \quad & \sqrt[3]{\frac{27}{64}} \\
 & = \frac{3}{4}
 \end{aligned}$$

9. Find the following without using your calculator:

$$\begin{aligned}
 \text{a)} \quad & 92\% \text{ of } 180 \\
 & = \frac{92}{100} \times \frac{180}{1} \\
 & = \frac{92}{5} \times \frac{9}{1} \\
 & = \frac{828}{5} \text{ or } 165\frac{3}{5}
 \end{aligned}$$

$$\begin{aligned}
 \text{b)} \quad & 45\% \text{ of } 40 \\
 & = \frac{45}{100} \times \frac{40}{1} \\
 & = \frac{9}{1} \times \frac{2}{1} \\
 & = 18
 \end{aligned}$$

$$\begin{aligned}
 \text{c)} \quad & 50\% \text{ of } 130 \\
 & = \frac{50}{100} \times \frac{130}{1} \\
 & = \frac{1}{1} \times \frac{65}{1} \\
 & = 65
 \end{aligned}$$



d) 25% of 80

$$= \frac{25}{100} \times \frac{80}{1}$$

$$= \frac{1}{4} \times \frac{20}{1}$$

$$= 20$$

e) 65% of 5

$$= \frac{65}{100} \times \frac{5}{1}$$

$$= \frac{13}{4} \times \frac{1}{1}$$

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

f) 33% of 63

$$= \frac{33}{100} \times \frac{63}{1}$$

$$= \frac{2079}{100} \text{ or } 20,79$$

g) 77% of 700

$$= \frac{77}{100} \times \frac{700}{1}$$

$$= \frac{77}{1} \times \frac{7}{1}$$

$$= 539$$

h) 70% of 36

$$= \frac{70}{100} \times \frac{36}{1}$$

$$= \frac{7}{5} \times \frac{18}{1}$$

$$= \frac{126}{5} \text{ or } 25\frac{1}{5}$$

i) 20% of 420

$$= \frac{20}{100} \times \frac{420}{1}$$

$$= \frac{1}{5} \times \frac{84}{1}$$

$$= 84$$

j) 68% of 297

$$= \frac{68}{100} \times \frac{297}{1}$$

$$= \frac{17}{25} \times \frac{297}{1}$$

$$= \frac{5049}{25} \text{ or } 201\frac{24}{25}$$

k) 120% of 2 268

$$= \frac{120}{100} \times \frac{2268}{1}$$

$$= \frac{6}{5} \times \frac{2268}{1}$$

$$= \frac{13608}{5} \text{ or } 2721\frac{3}{5}$$

l) 34% of 667

$$= \frac{34}{100} \times \frac{667}{1}$$

$$= \frac{17}{50} \times \frac{667}{1}$$

$$= \frac{11339}{50} \text{ or } 226\frac{39}{50}$$

10. Give the percentage of each of the following (round off to two decimal places where necessary):

a) 400 out of 500

$$= \frac{400}{500} \times 100$$

$$= 80\%$$

b) 897 out of 950

$$= \frac{897}{950} \times 100$$

$$= 94,42\%$$

c) 61 out of 70

$$= \frac{61}{70} \times 100$$

$$= 87,14\%$$

d) 30 out of 45

$$= \frac{30}{45} \times 100$$

$$= 66,67\%$$

e) 63 out of 72

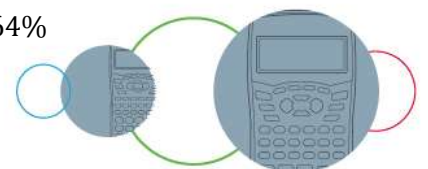
$$= \frac{63}{72} \times 100$$

$$= 87,5\%$$

f) 92 out of 110

$$= \frac{92}{110} \times 100$$

$$= 83,64\%$$



g) 46 out of 50

$$= \frac{46}{50} \times 100$$

$$= 92\%$$

h) 54 out of 80

$$= \frac{54}{80} \times 100$$

$$= 67,5\%$$

i) 278 out of 1 500

$$= \frac{278}{1500} \times 100$$

$$= 18,53\%$$

j) 67 out of 500

$$= \frac{67}{500} \times 100$$

$$= 13,4\%$$

11. Give the percentage increase or decrease for each of these pairs of values:

a) 63 to 72

$$= \frac{72-63}{63} \times 100$$

$$= \frac{9}{63} \times 100$$

$$= \frac{1}{7} \times 100$$

$$= 14,29\% \text{ increase}$$

b) 24 to 48

$$= \frac{48-24}{24} \times 100$$

$$= \frac{24}{24} \times 100$$

$$= 100\% \text{ increase}$$

c) 65 to 90

$$= \frac{90-65}{65} \times 100$$

$$= \frac{25}{65} \times 100$$

$$= \frac{5}{13} \times 100$$

$$= 38,46\% \text{ increase}$$

d) 19 to 21

$$= \frac{21-19}{19} \times 100$$

$$= \frac{2}{19} \times 100$$

$$= 10,53\% \text{ increase}$$

e) 29 to 42

$$= \frac{42-29}{29} \times 100$$

$$= \frac{13}{29} \times 100$$

$$= 44,83\% \text{ increase}$$

f) 99 to 100

$$= \frac{100-99}{99} \times 100$$

$$= \frac{1}{99} \times 100$$

$$= 1,01\% \text{ increase}$$

g) 75 to 100

$$= \frac{100-75}{75} \times 100$$

$$= \frac{25}{75} \times 100$$

$$= \frac{1}{3} \times 100$$

$$= 33,33\% \text{ increase}$$

h) 64 to 108

$$= \frac{108-64}{64} \times 100$$

$$= \frac{44}{64} \times 100$$

$$= \frac{11}{16} \times 100$$

$$= 68,75\% \text{ increase}$$

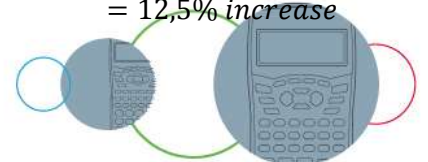
i) 32 to 36

$$= \frac{36-32}{32} \times 100$$

$$= \frac{4}{32} \times 100$$

$$= \frac{1}{8} \times 100$$

$$= 12,5\% \text{ increase}$$



$$\begin{aligned}
 \text{j) } & 90 \text{ to } 86 \\
 & = \frac{90-86}{90} \times 100 \\
 & = \frac{4}{90} \times 100 \\
 & = \frac{2}{45} \times 100 \\
 & = 4,44\% \text{ decrease}
 \end{aligned}$$

$$\begin{aligned}
 \text{k) } & 51 \text{ to } 34 \\
 & = \frac{51-34}{51} \times 100 \\
 & = \frac{17}{51} \times 100 \\
 & = \frac{1}{3} \times 100 \\
 & = 33,33\% \text{ decrease}
 \end{aligned}$$

$$\begin{aligned}
 \text{l) } & 64 \text{ to } 56 \\
 & = \frac{64-56}{64} \times 100 \\
 & = \frac{8}{64} \times 100 \\
 & = \frac{1}{8} \times 100 \\
 & = 12,5\% \text{ decrease}
 \end{aligned}$$

12. Calculate the following:

$$\begin{aligned}
 \text{a) } & 390 \text{ increased by } 15\% \\
 & = 448,5\%
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } & 412 \text{ decreased by } 20\% \\
 & = 329,6
 \end{aligned}$$

$$\begin{aligned}
 \text{c) } & 655 \text{ increased by } 30\% \\
 & = 851,5
 \end{aligned}$$

$$\begin{aligned}
 \text{d) } & 980 \text{ decreased by } 60\% \\
 & = 392
 \end{aligned}$$

$$\begin{aligned}
 \text{e) } & 1298 \text{ increased by } 50\% \\
 & = 1947
 \end{aligned}$$

$$\begin{aligned}
 \text{f) } & 1349 \text{ decreased by } 45\% \\
 & = 741,95
 \end{aligned}$$

$$\begin{aligned}
 \text{g) } & 492 \text{ increased by } 11\% \\
 & = 546,12
 \end{aligned}$$

$$\begin{aligned}
 \text{h) } & 2890 \text{ decreased by } 12\% \\
 & = 2543,2
 \end{aligned}$$

$$\begin{aligned}
 \text{i) } & 5890 \text{ increased by } 17\% \\
 & = 6891,3
 \end{aligned}$$

$$\begin{aligned}
 \text{j) } & 652 \text{ decreased by } 92\% \\
 & = 52,16
 \end{aligned}$$

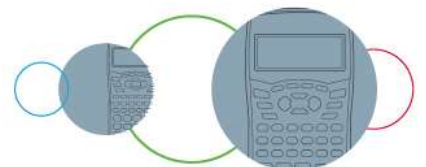
13. Work out the answers for the following word sums by showing all your working out and writing your answers in full sentences.

a) Suzy, Georgia and Bernadette do a project together. Suzy does  $\frac{5}{18}$  of the project, Georgia does  $\frac{2}{9}$  of the project and Bernadette does  $\frac{1}{2}$  of the project.

i) How much of the project still needs to be completed?

$$= \frac{18}{18} - \frac{5}{18} (\text{Suzy}) - \frac{4}{18} (\text{Georgia}) - \frac{9}{18} (\text{Bernadette})$$

$$= 0$$





- ii) Who do you think should do the last section of the project? Give a reason for your answer.

*There is no part of the project left to do.*

- b) Bob's bling and bits is having a sale. Items in Category A are marked down by 25% and items in Category B are marked down by 45%. Find the prices for each of these items:

Bling Necklace – original price = R195      Bling Ring – original price = R340

Bling Scarf – original price = R95      Earrings – original price = R120.

- i) if they are in category A

Bling necklace =  $195 - 25\% = R146,25$

Bling Ring =  $R340 - 25\% = R255$

Bling Scarf =  $R95 - 25\% = R71,25$

Earrings =  $R120 - 25\% = R90$

- ii) if they are in category B.

Bling necklace =  $195 - 45\% = R107,25$

Bling Ring =  $R340 - 45\% = R187$

Bling Scarf =  $R95 - 45\% = R52,25$

Earrings =  $R120 - 45\% = R66$

- c) Siphon buys a car for R169 000. He pays a deposit of 15% and then makes monthly installments of 1% of the leftover amount for 9 years.

- i) What amount must Siphon pay for the deposit?

$R169\ 000 \times 15\% = R25\ 350$

- ii) What is the monthly payment that Siphon makes?

$R169\ 000 - 25\ 350 = R143\ 650$

Monthly instalments = R1 436,50

- iii) How much does Siphon pay in total for the car?

$= R\ 1436,50 \times 9 \times 12 + R25\ 350 = R180\ 492.$

