

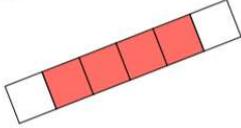
Year 7 Fractions Revision Worksheet (non-calculator)

1. Explain these key terms

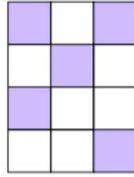
- | | | | |
|-----------------|----------------------|------------------|----------------|
| a) Equivalent | b) Cancel | c) Numerator | d) Denominator |
| e) Mixed number | f) Improper fraction | g) Simplest form | h) Tenth |
| i) Hundredth | j) Thousandth | | |

2. What fraction of each shape is shaded?

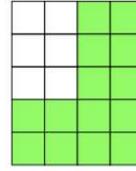
a)



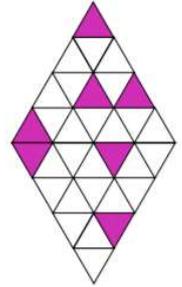
b)



c)



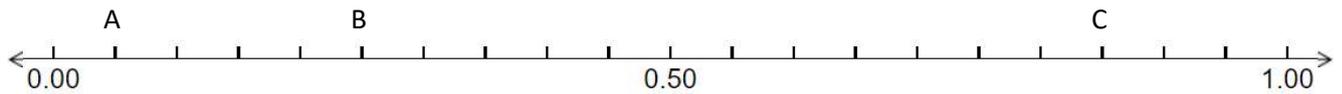
d)



3. Write these decimals as fractions in their simplest form.

- | | | | |
|----------------|----------------|----------------|---------|
| a) 0.1 | b) 0.01 | c) 0.2 | d) 0.25 |
| e) 0.4 | f) 0.45 | g) 0.05 | h) 0.5 |
| i) 0.125 | j) 0.375 | k) 0.75 | l) 0.8 |
| m) $0.\dot{3}$ | n) $0.\dot{1}$ | o) $0.\dot{6}$ | p) 1.1 |

4. State the value of A, B and C from the number line as a fraction in its simplest form.



5. Write these fractions as decimals.

- | | | | |
|-------------------|--------------------|----------------------|------------------|
| a) $\frac{3}{10}$ | b) $\frac{7}{100}$ | c) $\frac{27}{1000}$ | d) $\frac{3}{5}$ |
| e) $\frac{7}{20}$ | f) $\frac{13}{25}$ | g) $\frac{7}{8}$ | h) $\frac{6}{5}$ |

6. Cancel these fractions to their simplest form.

- | | | | |
|-------------------|---------------------|-----------------------|--------------------|
| a) $\frac{8}{20}$ | b) $\frac{70}{100}$ | c) $\frac{120}{1000}$ | d) $\frac{35}{50}$ |
| e) $\frac{7}{49}$ | f) $\frac{15}{25}$ | g) $\frac{12}{18}$ | h) $\frac{25}{20}$ |

7. Write these improper fractions as mixed numbers.

- | | | | |
|--------------------|----------------------|-----------------------|-------------------|
| a) $\frac{23}{10}$ | b) $\frac{731}{100}$ | c) $\frac{25}{9}$ | d) $\frac{13}{5}$ |
| e) $\frac{47}{20}$ | f) $\frac{82}{25}$ | g) $\frac{17}{8} - 1$ | h) $\frac{16}{5}$ |

8. Write these mixed numbers as improper fractions.

- | | | | |
|--------------------|---------------------|---------------------|-------------------|
| a) $1\frac{3}{7}$ | b) $2\frac{7}{8}$ | c) $1\frac{27}{50}$ | d) $2\frac{3}{5}$ |
| e) $5\frac{7}{20}$ | f) $4\frac{13}{15}$ | g) $2\frac{7}{8}$ | h) $9\frac{1}{5}$ |

9. Put these numbers in ascending order.

- a) $\frac{1}{2}, \frac{1}{7}, \frac{1}{3}, \frac{1}{11}, \frac{1}{5}$

b) $\frac{3}{4}, 0.7, \frac{2}{3}, \frac{4}{9}, \frac{4}{5}$

10. Work these out, giving your answer in its simplest form. Write improper fractions as mixed numbers if appropriate.

a) $\frac{3}{5} + \frac{1}{5}$

b) $\frac{7}{9} - \frac{2}{9}$

c) $\frac{7}{10} - \frac{1}{5}$

d) $\frac{3}{5} + \frac{11}{15}$

e) $\frac{7}{20} + \frac{1}{2}$

f) $2\frac{1}{6} - 1\frac{2}{3}$

g) $1\frac{1}{5} - \frac{7}{8}$

h) $\frac{11}{12} + \frac{7}{15}$

11. Find

a) $\frac{1}{5}$ of 30

b) $\frac{2}{3}$ of 30

c) $\frac{7}{10}$ of 30

d) $\frac{9}{5}$ of 30

12. Find the next three numbers in the sequence: $0, \frac{1}{12}, \frac{1}{4}, \frac{1}{2}, \frac{5}{6}, \frac{5}{4}$

13. On Friday Tommy did 3 hours of school work. On Monday he did half as much again. How long did he spend on schoolwork on Monday?

14. In a class of 28 Year 8s, 12 of them are 13. What fraction of them are 14? Give your answer in its simplest form.

15. There are 200 pupils at a residential centre. Half of them chose to do water sports on Wednesday morning. Of those that didn't do water sports, $\frac{7}{10}$ did climbing or high ropes. How many didn't do watersports, climbing or highropes that morning?

16. What number is half way between $\frac{1}{4}$ and $\frac{2}{3}$? Give your answer as a fraction in its simplest form.