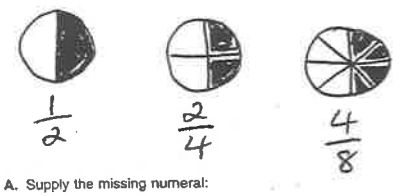
Fraction Worksheet.

Equivalent Fractions or equal fractions.



$\frac{1}{2}$ $\frac{2}{4}$ $\frac{4}{8}$

$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$

example: $\frac{3}{4} = \frac{\square}{20}$

$\frac{3 \times 5}{4 \times 5} = \frac{15}{20}$

example: $\frac{30}{50} = \frac{\square}{5}$

$\frac{30 \div 10}{50 \div 10} = \frac{3}{5}$

A. Supply the missing numeral:

1. $\frac{1}{2} = \frac{?}{10}$	7. $\frac{2}{3} = \frac{8}{?}$	13. $\frac{3}{5} = \frac{24}{?}$	19. $\frac{18}{20} = \frac{?}{10}$	25. $\frac{14}{35} = \frac{2}{?}$
2. $\frac{2}{3} = \frac{?}{6}$	8. $\frac{5}{6} = \frac{?}{24}$	14. $\frac{4}{5} = \frac{12}{?}$	20. $\frac{2}{3} = \frac{24}{?}$	26. $\frac{30}{42} = \frac{?}{7}$
3. $\frac{24}{30} = \frac{4}{?}$	9. $\frac{3}{4} = \frac{?}{12}$	15. $\frac{3}{5} = \frac{?}{30}$	21. $\frac{30}{42} = \frac{?}{7}$	27. $\frac{1}{4} = \frac{?}{12}$
4. $\frac{21}{36} = \frac{?}{12}$	10. $\frac{30}{48} = \frac{5}{?}$	16. $\frac{2}{5} = \frac{?}{30}$	22. $\frac{2}{5} = \frac{14}{?}$	28. $\frac{27}{12} = \frac{18}{?}$
5. $\frac{4}{5} = \frac{28}{?}$	11. $\frac{18}{24} = \frac{?}{4}$	17. $\frac{32}{48} = \frac{2}{?}$	23. $\frac{3}{4} = \frac{?}{20}$	29. $\frac{1}{4} = \frac{?}{48}$
6. $\frac{1}{3} = \frac{7}{?}$	12. $\frac{5}{6} = \frac{20}{?}$	18. $\frac{28}{36} = \frac{?}{9}$	24. $\frac{4}{5} = \frac{?}{20}$	30. $\frac{36}{54} = \frac{4}{?}$

Simplifying Fractions – both the numerator and denominator must be divided by the same number.

examples:

i) Simplify $\frac{6}{10}$

$\frac{6}{10} = \frac{2 \times 3}{2 \times 5} = \frac{3}{5}$

$\frac{6}{10} = \frac{3}{5}$

2) Simplify $\frac{21}{35}$

$\frac{21}{35} = \frac{3 \times 7}{5 \times 7} = \frac{3}{5}$

B. Give the simplest equivalent fraction:

1. $\frac{6}{8}$	13. $\frac{20}{24}$	25. $\frac{14}{56}$	37. $\frac{14}{21}$	49. $\frac{9}{36}$
2. $\frac{6}{10}$	14. $\frac{5}{30}$	26. $\frac{12}{42}$	38. $\frac{9}{12}$	50. $\frac{12}{36}$
3. $\frac{4}{10}$	15. $\frac{9}{30}$	27. $\frac{21}{56}$	39. $\frac{12}{18}$	51. $\frac{18}{36}$
4. $\frac{4}{12}$	16. $\frac{18}{30}$	28. $\frac{20}{48}$	40. $\frac{3}{18}$	52. $\frac{27}{36}$
5. $\frac{6}{12}$	17. $\frac{24}{30}$	29. $\frac{18}{48}$	41. $\frac{6}{24}$	53. $\frac{33}{36}$
6. $\frac{5}{15}$	18. $\frac{3}{36}$	30. $\frac{21}{54}$	42. $\frac{18}{24}$	54. $\frac{18}{54}$
7. $\frac{7}{21}$	19. $\frac{6}{36}$	31. $\frac{14}{21}$	43. $\frac{21}{24}$	55. $\frac{18}{63}$
8. $\frac{3}{12}$	20. $\frac{10}{36}$	32. $\frac{8}{10}$	44. $\frac{6}{30}$	56. $\frac{16}{44}$
9. $\frac{6}{18}$	21. $\frac{15}{36}$	33. $\frac{2}{10}$	45. $\frac{12}{30}$	57. $\frac{24}{64}$
10. $\frac{15}{18}$	22. $\frac{21}{36}$	34. $\frac{8}{12}$	46. $\frac{21}{30}$	58. $\frac{30}{54}$
11. $\frac{4}{24}$	23. $\frac{30}{36}$	35. $\frac{10}{12}$	47. $\frac{27}{30}$	59. $\frac{18}{45}$
12. $\frac{12}{24}$	24. $\frac{14}{42}$	36. $\frac{10}{15}$	48. $\frac{4}{36}$	60. $\frac{27}{63}$

Solutions:

A. 1. 5 2. 4 3. 35 4. 7 5. 35 6. 21 7. 12 8. 20 9. 9 10. 8 11. 3 12. 10 13. 40 14. 15 15. 18 16. 12 17. 32 18. 7 19. 9 20. 36 21. 5 22. 35 23. 15 24. 18 25. 5 26. 15 27. 28 28. 8 29. 12 30. 6

B. 1. $\frac{3}{4}$ 2. $\frac{3}{5}$ 3. $\frac{2}{5}$ 4. $\frac{1}{3}$ 5. $\frac{1}{2}$ 6. $\frac{1}{3}$ 7. $\frac{1}{3}$ 8. $\frac{1}{4}$ 9. $\frac{1}{3}$ 10. $\frac{5}{6}$ 11. $\frac{1}{6}$ 12. $\frac{1}{2}$ 13. $\frac{5}{6}$ 14. $\frac{1}{6}$ 15. $\frac{8}{10}$ 16. $\frac{3}{5}$ 17. $\frac{4}{5}$ 18. $\frac{1}{12}$ 19. $\frac{1}{6}$ 20. $\frac{5}{18}$ 21. $\frac{5}{12}$ 22. $\frac{7}{12}$ 23. $\frac{5}{6}$ 24. $\frac{1}{3}$ 25. $\frac{1}{4}$ 26. $\frac{2}{7}$ 27. $\frac{7}{12}$ 28. $\frac{5}{12}$ 29. $\frac{2}{3}$ 30. $\frac{7}{18}$ 31. $\frac{2}{7}$ 32. $\frac{4}{5}$ 33. $\frac{1}{5}$ 34. $\frac{2}{3}$ 35. $\frac{5}{6}$ 36. $\frac{2}{3}$ 37. $\frac{2}{3}$ 38. $\frac{3}{4}$ 39. $\frac{2}{3}$ 40. $\frac{1}{6}$ 41. $\frac{1}{4}$ 42. $\frac{3}{4}$ 43. $\frac{7}{8}$ 44. $\frac{1}{5}$ 45. $\frac{2}{5}$ 46. $\frac{7}{10}$ 47. $\frac{9}{10}$ 48. $\frac{1}{9}$ 49. $\frac{1}{4}$ 50. $\frac{1}{3}$ 51. $\frac{1}{2}$ 52. $\frac{3}{4}$ 53. $\frac{11}{12}$ 54. $\frac{1}{3}$ 55. $\frac{2}{3}$ 56. $\frac{4}{11}$ 57. $\frac{3}{8}$ 58. $\frac{5}{8}$ 59. $\frac{2}{5}$ 60. $\frac{3}{7}$

Multiplying and dividing fractions.

steps 1) use equivalent fractions to make each the same common denominator (bottom).

2) Add or subtract the numerators (top) only

3) change to a mixed fraction if the numerator is larger than the denominator. ie $\frac{3}{2} = 1\frac{1}{2}$.

4) Simplify final answer where possible.

1. Simplify and write your answer in simplest form:

(a) $\frac{1}{4} + \frac{3}{8}$ (b) $\frac{2}{5} + \frac{3}{10}$ (c) $\frac{2}{3} + \frac{1}{6}$ (d) $\frac{5}{12} + \frac{1}{6}$ (e) $\frac{1}{8} + \frac{3}{4}$ (f) $\frac{7}{10} - \frac{1}{5}$ (g) $\frac{5}{12} + \frac{1}{4}$ (h) $\frac{7}{12} + \frac{1}{3}$ (i) $\frac{3}{4} + \frac{1}{16}$ (j) $\frac{2}{3} + \frac{2}{15}$ (k) $\frac{3}{8} + \frac{1}{4}$ (l) $\frac{3}{10} + \frac{7}{18}$ (m) $\frac{1}{6} + \frac{3}{4} + \frac{1}{12}$ (n) $\frac{3}{16} + \frac{5}{12} + \frac{7}{10}$ (o) $\frac{4}{15} + \frac{5}{12} + \frac{3}{10}$ (p) $\frac{1}{4} + \frac{5}{12} + \frac{1}{15}$ (q) $\frac{3}{4} + \frac{5}{12} + \frac{7}{12}$ (r) $\frac{1}{6} + \frac{3}{4} + \frac{8}{15}$ (s) $\frac{3}{4} + \frac{1}{12} + \frac{7}{12}$ (t) $\frac{1}{2} + \frac{1}{2}$ (u) $1\frac{5}{24}$ (v) $1\frac{13}{48}$ (w) $1\frac{29}{36}$ (x) $1\frac{7}{80}$

2. (a) $\frac{1}{4}$ (b) $\frac{5}{6}$ (c) $\frac{3}{8}$ (d) $\frac{3}{8}$ (e) $\frac{1}{8}$ (f) $\frac{1}{2}$ (g) $\frac{1}{2}$ (h) $\frac{1}{8}$ (i) $\frac{1}{12}$

3. (a) $\frac{1}{6}$ (b) $\frac{3}{8}$ (c) $\frac{8}{15}$ (d) $\frac{8}{20}$

4. (a) $2\frac{2}{5}$ (b) $1\frac{7}{8}$ (c) $2\frac{1}{12}$ (d) $2\frac{4}{5}$ (e) $1\frac{7}{8}$ (f) $\frac{9}{16}$ (g) $\frac{9}{16}$ (h) $\frac{11}{25}$ (i) $\frac{5}{24}$ (j) $\frac{9}{36}$ (k) $\frac{29}{36}$ (l) $\frac{3}{40}$ (m) $2\frac{1}{5}$ (n) $1\frac{7}{8}$ (o) $2\frac{4}{5}$ (p) $\frac{9}{16}$

example: $\frac{3}{4} \div \frac{1}{4} = \frac{3}{1} \times \frac{4}{1} = 12$

$\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times \frac{8}{1} = \frac{24}{4} = 6$

example: i) $\frac{6}{10} + \frac{3}{5} = \frac{6}{10} + \frac{6}{10} = \frac{12}{10} = 1\frac{2}{10}$

$\frac{6}{10} - \frac{4}{9} \rightarrow \frac{2 \times 3}{3 \times 3} = \frac{6}{9}$

Therefore $\frac{6}{9} - \frac{4}{9} = \frac{2}{9}$

ii) $\frac{8}{10} + \frac{3}{10} = \frac{11}{10} = 1\frac{1}{10}$

2. Give the answer in simplest form:

(a) $\frac{3}{4} - \frac{1}{2}$ (b) $\frac{1}{4} + \frac{3}{8}$ (c) $\frac{7}{12} - \frac{1}{3}$ (d) $\frac{5}{12} - \frac{1}{4}$ (e) $\frac{7}{8} - \frac{3}{4}$ (f) $\frac{5}{6} - \frac{1}{3}$ (g) $\frac{2}{3} + \frac{1}{6}$ (h) $\frac{11}{12} - \frac{5}{12}$ (i) $\frac{7}{12} - \frac{1}{6}$ (j) $\frac{7}{12} - \frac{1}{3}$ (k) $\frac{5}{12} + \frac{1}{4}$ (l) $\frac{3}{4} - \frac{1}{3}$ (m) $\frac{7}{10} - \frac{1}{5}$ (n) $\frac{3}{4} - \frac{3}{10}$ (o) $\frac{3}{4} - \frac{1}{10}$ (p) $\frac{7}{10} - \frac{2}{15}$ (q) $\frac{3}{4} - \frac{5}{12}$ (r) $\frac{5}{6} - \frac{3}{4}$ (s) $\frac{7}{9} - \frac{1}{12}$ (t) $\frac{3}{15} - \frac{1}{12}$

3. Simplify:

(a) $\frac{1}{2} \times \frac{1}{3}$ (b) $\frac{1}{2} \times \frac{2}{3}$ (c) $\frac{2}{3} \times \frac{3}{5}$ (d) $\frac{3}{4} \times \frac{4}{15}$ (e) $\frac{1}{6} \times \frac{3}{5}$ (f) $\frac{1}{2} \times \frac{1}{2}$ (g) $\frac{1}{2} \times \frac{2}{3}$ (h) $\frac{3}{4} \times \frac{1}{3}$ (i) $\frac{1}{4} \times \frac{3}{10}$ (j) $\frac{1}{3} \times \frac{3}{5}$ (k) $\frac{1}{4} \times \frac{2}{7} \times \frac{7}{10}$ (l) $\frac{3}{5} \times \frac{5}{9} \times \frac{3}{4}$ (m) $\frac{2}{3} \times \frac{4}{5} \times \frac{7}{8}$ (n) $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}$ (o) $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}$ (p) $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}$

examples: i) $\frac{3}{5} \times \frac{1}{4} = \frac{3}{20}$

ii) $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20} = \frac{3 \times 2}{10 \times 2} = \frac{3}{10}$

Dividing fractions

steps 1) change the division sign to a multiply sign

2) Turn the second fraction upside down.

3) Also multiply the two fractions using the multiplication rules above.

examples: a) $\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times \frac{8}{1} = \frac{24}{4} = 6$

b) $3 \div \frac{1}{4} = \frac{3}{1} \times \frac{4}{1} = 12$

c) $\frac{5}{6} \div \frac{3}{4} = \frac{5}{6} \times \frac{4}{3} = \frac{20}{18} = 1\frac{2}{18} = 1\frac{1}{9}$

3. Simplify:

(a) $\frac{1}{2} \div \frac{1}{3}$ (b) $\frac{1}{4} \div \frac{1}{3}$ (c) $\frac{2}{3} \div \frac{1}{5}$ (d) $\frac{3}{4} \div \frac{1}{4}$ (e) $\frac{1}{6} \div \frac{3}{5}$ (f) $\frac{1}{2} \div \frac{1}{2}$ (g) $\frac{2}{3} \div \frac{1}{2}$ (h) $\frac{3}{4} \div \frac{1}{3}$ (i) $\frac{1}{4} \div \frac{3}{10}$ (j) $\frac{1}{3} \div \frac{3}{5}$ (k) $\frac{1}{4} \div \frac{2}{7} \div \frac{7}{10}$ (l) $\frac{3}{5} \div \frac{5}{9} \div \frac{3}{4}$ (m) $\frac{2}{3} \div \frac{4}{5} \div \frac{7}{8}$ (n) $\frac{1}{2} \div \frac{2}{3} \div \frac{3}{4}$ (o) $\frac{1}{2} \div \frac{2}{3} \div \frac{3}{4}$ (p) $\frac{1}{2} \div \frac{2}{3} \div \frac{3}{4}$

4. Simplify:

(a) $\frac{1}{2} \div \frac{1}{5}$ (b) $\frac{1}{4} \div \frac{1}{5}$ (c) $\frac{2}{3} \div \frac{1}{5}$ (d) $\frac{3}{4} \div \frac{1}{5}$ (e) $\frac{1}{6} \div \frac{3}{5}$ (f) $\frac{1}{2} \div \frac{1}{2}$ (g) $\frac{2}{3} \div \frac{1}{2}$ (h) $\frac{3}{4} \div \frac{1}{3}$ (i) $\frac{1}{4} \div \frac{3}{10}$ (j) $\frac{1}{3} \div \frac{3}{5}$ (k) $\frac{1}{4} \div \frac{2}{7} \div \frac{7}{10}$ (l) $\frac{3}{5} \div \frac{5}{9} \div \frac{3}{4}$ (m) $\frac{2}{3} \div \frac{4}{5} \div \frac{7}{8}$ (n) $\frac{1}{2} \div \frac{2}{3} \div \frac{3}{4}$ (o) $\frac{1}{2} \div \frac{2}{3} \div \frac{3}{4}$ (p) $\frac{1}{2} \div \frac{2}{3} \div \frac{3}{4}$

examples: i) $\frac{3}{5} \div \frac{1}{4} = \frac{3}{20}$ ii) $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20} = \frac{3 \times 2}{10 \times 2} = \frac{3}{10}$

Solutions.

2 Simplify,

a $\frac{1}{2} + \frac{1}{5} \times \frac{1}{2}$ **b** $\frac{7}{10} - \frac{1}{5} \times \frac{1}{2}$ **c** $\frac{4}{9} \times \frac{9}{12} + \frac{1}{5}$ **d** $2 \times \frac{1}{3} + \frac{1}{3}$

e $\left(\frac{1}{2} + \frac{1}{3}\right) \div 5$ **f** $\frac{1}{2} + \frac{1}{3} \div 4$ **g** $2 \times \frac{1}{3} + \frac{2}{3}$ **h** $\left(\frac{1}{4} + 2\right) \times \frac{1}{3}$

i $\frac{1}{5} + \frac{4}{5} \times 3$ **j** $\left(\frac{3}{4} + \frac{1}{8}\right) \times \frac{1}{3}$ **k** $12 \times \left(\frac{1}{2} + \frac{1}{4}\right)$ **l** $7 \div \left(1\frac{5}{7} + \frac{2}{7}\right)$

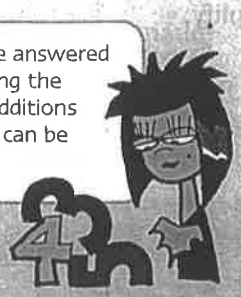
m $6 \times \frac{1}{4} + \frac{1}{2} \times \frac{1}{2}$ **n** $2 \div \frac{1}{2} \times \frac{1}{4}$ **o** $1\frac{1}{5} \div 2 + 3$ **p** $\left(14 - \frac{2}{3}\right) \times \frac{1}{4}$

Example

Simplify $\frac{2}{5} + \frac{3}{4} + \frac{3}{5}$.

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

Questions can often be answered quickly by rearranging the numbers—but *only* additions (and multiplications) can be done in *any* order.



3 Simplify:

a $\frac{1}{3} + \frac{1}{4} \times 2$ **b** $3 \times \frac{2}{5} + \frac{1}{5}$ **c** $\frac{1}{2} + \frac{1}{3} \times 6$ **d** $2 + \frac{1}{3} \times \frac{1}{5}$

e $\frac{1}{2} \div \frac{1}{3} \times 4$ **f** $\frac{1}{8} + \frac{3}{2} \times \frac{1}{2}$ **g** $(1\frac{1}{2} + \frac{1}{4}) \times 2$ **h** $3 \div \frac{1}{5} \times \frac{1}{2}$

i $\frac{2}{3} \times \frac{1}{2} + \frac{1}{4}$ **j** $\frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6}$ **k** $(2 - \frac{1}{5}) \times \frac{2}{3}$ **l** $3 \times \frac{1}{8} + 2 \times \frac{1}{4}$

m $\frac{1}{2} \times 10 + 10 \times \frac{1}{5}$ **n** $10 \div \frac{1}{2} + \frac{1}{2}$ **o** $6 \div \frac{1}{2} + \frac{1}{3} \div \frac{1}{4}$ **p** $\frac{3}{5} + \frac{2}{5} + \frac{1}{8} \times 8$

4 Simplify:

a $\frac{7}{10} + \frac{4}{5} + \frac{3}{10}$ **b** $\frac{2}{3} \times 0 \times \frac{7}{11}$ **c** $8 \times \frac{3}{13} \times \frac{1}{8}$ **d** $\frac{4}{5} + 3\frac{1}{2} + \frac{1}{5}$

e $\frac{3}{8} \times 1 \times \frac{4}{9}$ **f** $\frac{5}{6} \times 1\frac{3}{4} \times 0$ **g** $1\frac{3}{10} + 5\frac{4}{5} + \frac{7}{10}$ **h** $\frac{1}{4} + \frac{9}{10} + 1\frac{3}{4}$

i $\frac{5}{7} \times \frac{5}{8} \times 1\frac{2}{5}$ **j** $6\frac{1}{2} + \frac{1}{3} + \frac{2}{3}$ **k** $\frac{4}{5} + \frac{2}{3} - \frac{4}{5}$ **l** $\frac{3}{4} \times 2\frac{1}{4} \div \frac{3}{4}$

m $\frac{1}{2} \times 2\frac{1}{4} \times 2$ **n** $6 \div \frac{1}{2} \div 2$ **o** $\frac{5}{8} \div 3 \times 6$ **p** $\frac{2}{3} \times \frac{5}{8} \times 1\frac{1}{2}$

q $4 + \frac{1}{4} \times 3$ **r** $5 \div \frac{5}{8} + \frac{3}{8}$ **s** $3 - \frac{1}{5} \times \frac{5}{8}$ **t** $\frac{4}{3} \div \frac{1}{2} \times 4$

u $\frac{1}{8} + 2\frac{1}{3} + \frac{7}{8}$ **v** $18 \div \frac{1}{5} \times \frac{2}{3}$ **w** $\frac{3}{8} + \frac{1}{5} \times 2 + \frac{1}{5}$ **x** $\frac{9}{10} + \frac{5}{8} \times 2 - \frac{1}{8}$

5 Simplify:

a $\frac{1}{2} \times \frac{2}{5} + \frac{3}{8} \times \frac{8}{15}$ **b** $5 \times (\frac{3}{5} - \frac{2}{5}) \times 2$ **c** $\frac{3}{8} \times 3 - \frac{1}{8} + \frac{2}{3}$

d $1\frac{1}{2} \div \frac{2}{3} \div \frac{1}{8} \div 2$ **e** $\frac{2}{3} \times \frac{1}{8} \times \frac{2}{3} \times 0$ **f** $(2 \times 6\frac{1}{4} + \frac{3}{4}) + \frac{1}{4}$

g $2 \times \frac{1}{4} \div \frac{1}{2} + \frac{1}{2}$ **h** $\frac{1}{8} + \frac{2}{3} \times \frac{1}{5} + \frac{7}{8}$ **i** $6\frac{1}{4} \div \frac{5}{8} \div \frac{1}{2} + 1$

j $6\frac{1}{2} + (\frac{1}{2} + \frac{1}{4}) + 3$ **k** $\frac{2}{3} \times (1 - \frac{1}{3}) - \frac{1}{5}$ **l** $3 \times (\frac{1}{2} + \frac{7}{8} - \frac{1}{4})$

m $\frac{3}{5} \div \frac{1}{2} \times \frac{1}{4} \div \frac{1}{8}$ **n** $\frac{2}{3} \times \frac{3}{5} + (2 - \frac{3}{5})$ **o** $123 \div \frac{1}{2} \div 2 \div 123$

2 **a** $\frac{3}{5}$ **b** $\frac{3}{5}$ **c** $\frac{8}{15}$ **d** 1
e $\frac{1}{6}$ **f** $\frac{7}{12}$ **g** $1\frac{1}{3}$ **h** $\frac{3}{4}$
i $2\frac{3}{25}$ **j** $\frac{7}{24}$ **k** 9 **l** $3\frac{1}{2}$
m $1\frac{3}{14}$ **n** 1 **o** $\frac{3}{5}$ **p** $3\frac{1}{3}$

3 **a** $\frac{5}{6}$ **b** $1\frac{2}{15}$ **c** $2\frac{1}{2}$ **d** $2\frac{1}{15}$
e 6 **f** $\frac{7}{8}$ **g** $3\frac{1}{2}$ **h** $7\frac{1}{2}$
i $\frac{7}{12}$ **j** $\frac{1}{3}$ **k** $1\frac{1}{5}$ **l** $\frac{7}{8}$
m 7 **n** $20\frac{1}{2}$ **o** $13\frac{1}{3}$ **p** 2

4 **a** $1\frac{4}{15}$ **b** 0 **c** $\frac{3}{13}$ **d** $4\frac{1}{2}$
e $\frac{1}{6}$ **f** 0 **g** $7\frac{4}{5}$ **h** $2\frac{9}{10}$
i $\frac{5}{8}$ **j** $7\frac{1}{2}$ **k** $\frac{2}{3}$ **l** $2\frac{1}{4}$
m $2\frac{1}{4}$ **n** 6 **o** $1\frac{1}{4}$ **p** $\frac{5}{8}$

5 **a** $\frac{2}{5}$ **b** 2 **c** $1\frac{2}{3}$ **d** 9
f $13\frac{1}{2}$ **g** $1\frac{1}{2}$ **h** $1\frac{2}{15}$ **i** 21
k $\frac{11}{45}$ **l** $3\frac{3}{8}$ **m** $2\frac{2}{5}$ **n** $1\frac{4}{5}$
q $4\frac{3}{4}$ **r** $8\frac{3}{8}$ **s** $2\frac{7}{8}$ **t** $10\frac{2}{3}$
u $3\frac{1}{3}$ **v** 60 **w** $\frac{39}{40}$ **x** $2\frac{1}{40}$