

(1) Calculate the following, simplifying where possible

(a) $\frac{2}{3} \times \frac{5}{4}$ (b) $\frac{3}{4} + \frac{1}{3}$ (c) $\frac{1}{5} - \frac{1}{6}$ (d) $\frac{4}{7} \div \frac{7}{4}$
 (e) $\frac{4}{5} - \frac{1}{3}$ (f) $\frac{3}{5} \div \frac{1}{10}$ (g) $\frac{4}{7} \times \frac{1}{2}$ (h) $\frac{1}{4} + \frac{1}{8}$
 (i) $\frac{2}{5} + \frac{1}{2}$ (j) $\frac{100}{312} \div \frac{100}{312}$ (k) $\frac{1}{3} - \frac{1}{4}$ (l) $3 \times \frac{1}{8}$
 (m) $\frac{3}{7} - 1$ (n) $\frac{2}{5} \times \frac{1}{5}$ (o) $\frac{1}{3} + 3$ (p) $\frac{1}{3} \div \frac{4}{7}$

Answers

| | | | |
|---|---|---|---|
| A | B | C | D |
| E | F | G | H |
| I | J | K | L |
| M | N | O | P |

(2) Without a calculator convert these fractions into decimals in their simplest form

(a) $\frac{1}{4}$ (b) $\frac{1}{10}$ (c) $\frac{2}{5}$ (d) $\frac{1}{8}$ (e) $\frac{1}{3}$ (f) $\frac{2}{3}$ (g) $\frac{6}{20}$ (h) $\frac{1}{7}$

Answers

| | | | |
|---|---|---|---|
| A | B | C | D |
| E | F | G | H |

(3) List these fractions in order of size (smallest first)

$\frac{1}{5}$, $\frac{3}{10}$, $\frac{1}{2}$, $\frac{3}{4}$

Answers

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

(4) Convert these fractions to percentages

(a) $\frac{1}{20}$ (b) $\frac{3}{10}$ (c) $\frac{7}{25}$ (d) $\frac{3}{4}$

| | | | |
|---|---|---|---|
| A | B | C | D |
|---|---|---|---|

(5) Paul has £60. Find, in terms of £'s, how much each share is worth below:

(a) $\frac{1}{15}$ (b) $\frac{5}{12}$ (c) $\frac{7}{30}$ (d) $\frac{1}{4}$

| | | | |
|---|---|---|---|
| A | B | C | D |
|---|---|---|---|

(6) Place the following fractions on the number line below

(a) $\frac{8}{15}$ (b) $\frac{4}{12}$ (c) $\frac{39}{40}$ (d) $\frac{1}{8}$

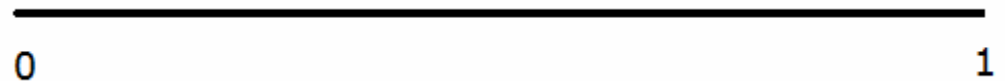


Extension

(7) Place the numbers below in ascending order

(a) $\frac{3}{4}$ (b) 0.2 (c) $\frac{4}{10}$ (d) 24% (e) 1.2 (f) 10% (g) $\frac{1}{8}$

(8) Position the numbers above on the number line given below



LO – Understand the concept of fractions to solve problems

Name _____ www.m4ths.com

- (1) Calculate the following, simplifying where possible
- (a) $\frac{2}{3} \times \frac{5}{4}$ (b) $\frac{3}{4} + \frac{1}{3}$ (c) $\frac{1}{5} - \frac{1}{6}$ (d) $\frac{4}{7} \div \frac{7}{4}$
 (e) $\frac{4}{5} - \frac{1}{3}$ (f) $\frac{3}{5} + \frac{1}{10}$ (g) $\frac{4}{7} \times \frac{1}{2}$ (h) $\frac{1}{4} + \frac{1}{8}$
 (i) $\frac{2}{5} + \frac{1}{2}$ (j) $\frac{100}{312} \div \frac{100}{312}$ (k) $\frac{1}{3} - \frac{1}{4}$ (l) $3 \times \frac{1}{8}$
 (m) $\frac{3}{7} - 1$ (n) $\frac{2}{5} \times \frac{1}{5}$ (o) $\frac{1}{3} + 3$ (p) $\frac{1}{3} \div \frac{4}{7}$

Answers

| | | | |
|------------------|------------------------------------|-----------------------------|--------------------|
| A $\frac{5}{6}$ | B $\frac{13}{12} / 1 \frac{1}{12}$ | C $\frac{1}{30}$ | D $1 \frac{6}{49}$ |
| E $7/15$ | F 6 | G $\frac{2}{7}$ | H $\frac{3}{8}$ |
| I $\frac{9}{10}$ | J 1 | K $\frac{1}{12}$ | L $\frac{3}{8}$ |
| M $-\frac{4}{7}$ | N $\frac{2}{25}$ | O $3 \frac{1}{3}$ or $10/3$ | P $\frac{3}{8}$ |

(2) Without a calculator convert these fractions into decimals in the simplest form

- (a) $\frac{1}{4}$ (b) $\frac{1}{10}$ (c) $\frac{2}{5}$ (d) $\frac{1}{8}$ (e) $\frac{1}{3}$ (f) $\frac{2}{3}$ (g) $\frac{6}{20}$ (h) $\frac{1}{7}$

Answers

| | | | |
|--------|-------|-------|------------|
| A 0.25 | B 0.1 | C 0.4 | D 0.125 |
| E 0.3 | F 0.6 | G 0.5 | H 0.142857 |

(3) List these fractions in order of size (smallest first)

- $\frac{1}{5}, \frac{3}{10}, \frac{1}{2}, \frac{3}{4}$

Answers

| | | | |
|---------------|----------------|---------------|---------------|
| $\frac{1}{5}$ | $\frac{3}{10}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |
|---------------|----------------|---------------|---------------|

(4) Convert these fractions to percentages

- (a) $\frac{1}{20}$ (b) $\frac{3}{10}$ (c) $\frac{7}{25}$ (d) $\frac{3}{4}$

Answers

| | | | |
|------|-------|-------|-------|
| A 5% | B 30% | C 28% | D 75% |
|------|-------|-------|-------|

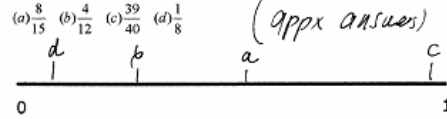
(5) Paul has £60. Find, in terms of £s, how much each share is worth below:

- (a) $\frac{1}{15}$ (b) $\frac{5}{12}$ (c) $\frac{7}{30}$ (d) $\frac{1}{4}$

Answers

| | | | |
|------|-------|-------|-------|
| A £4 | B £25 | C £14 | D £15 |
|------|-------|-------|-------|

(6) Place the following fractions on the number line below



Extension

(7) Place the numbers below in ascending order

- (a) $\frac{3}{4}$ (b) 0.2 (c) $\frac{4}{10}$ (d) 24% (e) 1.2 (f) $\frac{1}{8}$ (g) 10%
- Answers: (a) 3, (b) 2, (c) 4, (d) 24, (e) 12, (f) 1, (g) 10

(8) Position the numbers above on the number line given below

