

New GCSE Maths: N8 - All fractions skills together (20 questions)



Name:

Date:



What fraction of this shape is shaded?

A $\frac{2}{5}$	B $\frac{3}{2}$
C $\frac{1}{2}$	D $\frac{3}{5}$

Correct Answer: A B C D

Explanation:

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$$\frac{9}{12}$$

What is the above fraction in its simplest form?

A $\frac{3}{4}$	B $\frac{3}{6}$
C $\frac{4.5}{6}$	D Does not simplify

Correct Answer: A B C D

Explanation:

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$$\frac{3}{7} = \frac{12}{?}$$

What number should replace the question mark?

A 21	B 16
C 4	D 28

Correct Answer: A B C D

Explanation:

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When adding together two fractions you must first...

☐ A	Add the numerators and denominators together
☐ B	Flip the second fraction upside down
☐ C	Find the highest common factor of the denominators
☐ D	Find the lowest common multiple of the denominators

Correct Answer: A B C D

Explanation:

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$2\frac{1}{3}$

What is the above fraction as an improper (top-heavy) fraction?

☐ A $\frac{5}{3}$	☐ B $\frac{2}{6}$
☐ C $\frac{7}{3}$	☐ D $\frac{21}{3}$

Correct Answer: A B C D

Explanation:

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$\frac{2}{5}$ of 15 =

☐ A 10	☐ B 3
☐ C 5	☐ D 6

Correct Answer: A B C D

Explanation:

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Area = $\frac{4}{5} \text{ m}^2$ $\frac{1}{4} \text{ m}$

p

What calculation would correctly work out the length p?

☐ A $\frac{4}{5} \times \frac{1}{4}$	☐ B $\frac{4}{5} \div \frac{1}{4}$
☐ C $\frac{1}{4} \div \frac{4}{5}$	☐ D $\frac{4}{5} - \frac{1}{4}$

Correct Answer: A B C D

Explanation:

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When multiplying two fractions you must first...

☐ A	Multiply the numerators and denominators together
☐ B	Flip the second fraction upside down
☐ C	Find the highest common factor of the denominators
☐ D	Find the lowest common multiple of the denominators

Correct Answer: A B C D

Explanation:

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What is $\frac{2}{5}$ as a decimal?

☐ A	0.2	☐ B	2.5
☐ C	0.25	☐ D	0.4

Correct Answer: A B C D

Explanation:

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$\frac{4}{5} - \frac{1}{3}$

Which of the following is a correct next step in answering this question?

☐ A	$\frac{12}{15} - \frac{5}{15}$	☐ B	$\frac{4}{5} \times \frac{3}{1}$
☐ C	$\frac{4}{15} - \frac{1}{15}$	☐ D	$\frac{4-1}{5-3}$

Correct Answer: A B C D

Explanation:

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Which of the following fractions is the smallest?

☐ A	$\frac{2}{3}$	☐ B	$\frac{3}{4}$
☐ C	$\frac{4}{6}$	☐ D	$\frac{7}{12}$

Correct Answer: A B C D

Explanation:

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$$\frac{2}{3} \div \frac{3}{4}$$

What is the answer to the above question?

A $\frac{1.5}{12}$

B $\frac{8}{9}$

C $\frac{1}{2}$

D $\frac{9}{8}$

Correct Answer: A B C D

Explanation:

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$$3 \times \frac{2}{5}$$

What does this equal?

A $\frac{17}{5}$

B $\frac{6}{15}$

C $\frac{6}{5}$

D $\frac{15}{2}$

Correct Answer: A B C D

Explanation:

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Kate spends $\frac{1}{3}$ of her income on rent and $\frac{1}{4}$ on transport

What calculation would correctly work out how much she spends on transport and rent altogether?

A $\frac{1}{3} \times \frac{1}{4}$

B $\frac{1}{3} + \frac{1}{4}$

C $\frac{1}{3} - \frac{1}{4}$

D $\frac{1}{3} \div \frac{1}{4}$

Correct Answer: A B C D

Explanation:

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$\frac{1}{4}$ of people like oranges, and of those people $\frac{1}{2}$ like orange juice

What fraction of people like orange juice?

A $\frac{1}{2}$

B $\frac{1}{8}$

C $\frac{3}{4}$

D $\frac{1}{6}$

Correct Answer: A B C D

Explanation:

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In a book $\frac{2}{3}$ of the pages have pictures on them.

If 24 pages have pictures on them, how many pages are there in the book in total?

A 36	B 16
C 48	D 72

Correct Answer: A B C D

Explanation:

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Which of the following fractions is bigger than $\frac{5}{7}$ and smaller than $\frac{6}{7}$?

A $\frac{5}{8}$	B $\frac{2}{3}$
C $\frac{3}{4}$	D $\frac{9}{10}$

Correct Answer: A B C D

Explanation:

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$-\frac{2}{3} + 2$

What is the correct answer?

A $\frac{2}{3}$	B 0
C $\frac{8}{3}$	D $\frac{4}{3}$

Correct Answer: A B C D

Explanation:

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$\frac{5}{2x} - \frac{1}{x}$

What is the correct answer to the above question?

A $\frac{3}{2x}$	B $\frac{4}{x}$
C $\frac{4}{2}$	D $\frac{4}{2x}$

Correct Answer: A B C D

Explanation:

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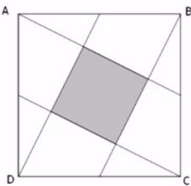
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Each diagonal line joins the midpoint of a side of the square ABCD.

What fraction of the overall square is shaded?

☐ A $\frac{1}{5}$	☐ B $\frac{1}{4}$
☐ C $\frac{1}{6}$	☐ D $\frac{1}{\sqrt{2}}$

Correct Answer: A B C D

Explanation:

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