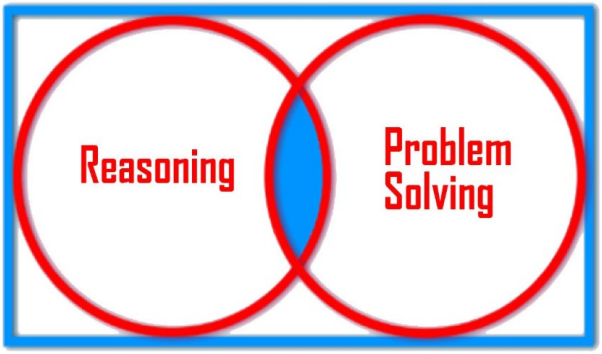
Bridging the Gap

GCSE to A – Level Transition



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Fractions

Answers

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1 Simplify the following fractions.
Show clearly how you arrive at your answer

a) $-\frac{5}{6} - -\frac{3}{4} + \frac{4}{7}$

b) $5\frac{1}{2} + 6\frac{3}{4} - 7\frac{4}{5}$

c) $-2\frac{3}{4} - 5\frac{1}{3} + 1\frac{2}{5}$

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2 Work out the following fractions

a) $\frac{5}{11} \times \frac{4}{5} \times \frac{3}{5}$

b) $-\frac{7}{9} \times \frac{6}{13} \div \frac{1}{2}$

c) $2\frac{2}{3} \times 4\frac{3}{4} \div \frac{1}{2}$

d) $\frac{3}{7} \div \frac{2}{3} \div \frac{1}{8}$

e) $3\frac{2}{5} \div 4\frac{1}{5} \times 1\frac{2}{7}$

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3 Simplify the following expressions as far as possible

a) $\frac{1}{5} \times \frac{1}{7} + \frac{2}{3}$

b) $\frac{2}{5} + \left(\frac{3}{4} \div \frac{5}{6}\right) - \frac{1}{5}$

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4 Solve the following equations

a) $\frac{2}{7} = \frac{a}{5} - \frac{4}{5}$

b) $-\frac{5}{7} - \frac{2}{5} = \frac{x}{4}$

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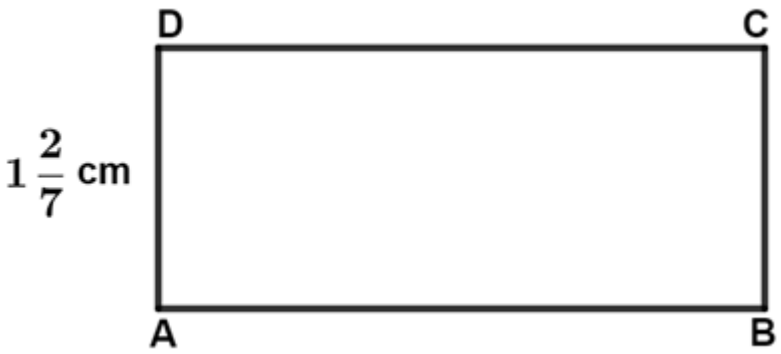
5 ABCD is a rectangle of area $6\frac{3}{8}$ cm^2



AD $= 1\frac{2}{7}$ cm

Calculate the perimeter of the rectangle.

Give your answer as a mixed number.

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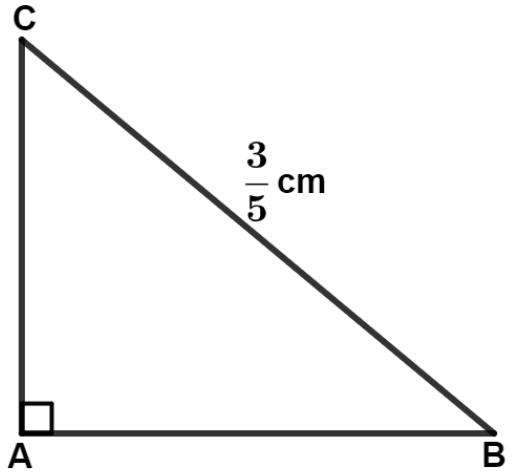
6 Triangle ABC shown below is isosceles.



Where AB = AC

BC = $\frac{3}{5}$ cm

Find the length of side AB.

Give your answer in the form $\frac{a}{b}\sqrt{c}$

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