

Fractions, decimals and percentages

Multiplying fractions and decimals and percentages

Multiplying decimals

1 Use the fact that $46 \times 93 = 4278$ to help you find:

1a 4.6×9.3

1b 46×0.93

1c 0.46×9.3

1d 0.46×0.93

1e 4600×0.93

1f 460×930

2 Find:

2a 2×0.6

2b 5×0.3

2c 3×0.4

2d 8×1.4

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2e 7×2.5

2f 9×3.6

2g 1.2×2.2

2h 3.6×1.4

2i 6.7×3.1

2j 11×8.3

2k 6.1×23

2l 59×4.2

Multiplying a whole number and a fraction

3 Calculate:

3a $\frac{1}{2} \times 18 =$

3b $\frac{1}{4} \times 20 =$

3c $\frac{1}{3} \times 6 =$

3d $\frac{3}{4} \times 36 =$

3e $\frac{5}{7} \times 14 =$

3f $\frac{6}{7} \times 21 =$

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3g $\frac{5}{9} \times 45 =$

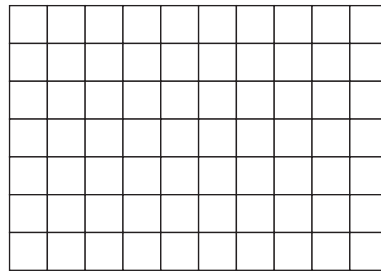
3h $\frac{3}{11} \times 22 =$

3i $\frac{5}{16} \times 32 =$

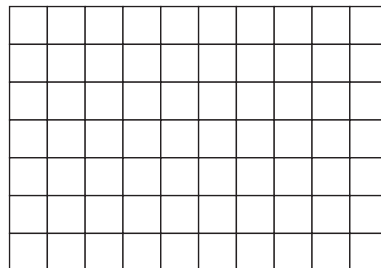
Finding a fraction of a fraction

- 4** Use the grids below to find the solution to the following multiplications:

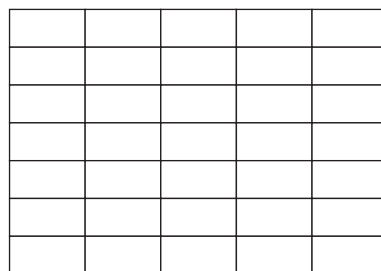
4a $\frac{1}{7} \times \frac{1}{10} =$



4b $\frac{2}{7} \times \frac{3}{10} =$



4c $\frac{4}{5} \times \frac{4}{7} =$



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5 Find each of the following, cancelling when possible.

5a $\frac{3}{4} \times \frac{5}{7} =$

5b $\frac{1}{5} \times \frac{7}{8} =$

5c $\frac{4}{5} \times \frac{1}{12} =$

5d $\frac{3}{7} \times \frac{9}{10} =$

5e $\frac{4}{7} \times \frac{5}{8} =$

5f $\frac{6}{7} \times \frac{3}{4} =$

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5g $\frac{2}{7} \times \frac{3}{8} =$

5h $\frac{1}{6} \times \frac{4}{7} =$

5i $\frac{3}{5} \times \frac{10}{9} =$

Multiplying with mixed numbers

6 Calculate:

6a $1\frac{1}{2} \times \frac{1}{2} =$

6b $1\frac{3}{4} \times \frac{2}{3} =$

6c $4\frac{1}{5} \times \frac{1}{3} =$

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6d $4\frac{1}{2} \times \frac{1}{5} =$

6e $3\frac{1}{8} \times \frac{3}{5} =$

6f $1\frac{1}{2} \times 3\frac{1}{2} =$

Finding a percentage of an amount

7 Calculate:

7a 40% of 200 =

7b 5% of 150 =

7c 6% of 20 =

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7d 3% of 50 =

7e 90% of 800 =

7f 25% of 84 =

7g 60% of 30 =

7h 85% of 20 =

7i 15% of 30 =

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8 Complete the following diagram:

