



**1** Add and subtract these in your head using the given strategy.

- a. Add using **multiples of ten**:  $56 + 64$

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- b. Add by **place value**:  $328 + 541$

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- c. Add by using the **opposite change rule**:

$$\begin{array}{r} 192 \\ + 659 \\ \hline \end{array}$$

- d. Subtract by using the **same change rule**:

$$\begin{array}{r} 723 \\ - 293 \\ \hline \end{array}$$

**2** Add and subtract these in your head using the given strategy.

- a. Add by **place value**:  $172 + 326$

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- b. Add by using the **opposite change rule**:

$$\begin{array}{r} 139 \\ + 689 \\ \hline \end{array}$$

- c. Subtract by using the **same change rule**:

$$\begin{array}{r} 307 \\ - 188 \\ \hline \end{array}$$

- d. Subtract by **counting up**:

$$\begin{array}{r} 620 \\ - 350 \\ \hline \end{array}$$

**3** Multiply these in your head using the given strategy.

- a.  $7 \times 31$  using the **distributive property**.

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- b.  $4 \times 75$  using **doubling and halving**.

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**4** Multiply these in your head using the given strategy.

- a.  $4 \times 62$  using the **distributive property**.

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- b.  $24 \times 45$  using **doubling and halving**.

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**5** Divide these in your head using the given strategy.

- a.  $288 \div 72$  by **simplifying first**.

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- b.  $98 \div 7$  by **breaking into multiples**.

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**6** Divide these in your head using the given strategy.

- a.  $448 \div 64$  by **simplifying first**.

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- b.  $92 \div 4$  by **breaking into multiples**.

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**7** Logan has 1 094 toy building blocks. Noah has only 816 toy building blocks. Estimate how many more building blocks Logan has.

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**8** Jason wants to buy a used car for \$6000. If he is able to save \$488 per month, estimate if he will have enough to buy the car in one year.

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**9** In all, 30 436 people went skiing in February and January. 16 009 went skiing in February. Estimate how many fewer people went skiing in January than in February.

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**10** A mixture of two chemicals measures 1 034 ml. It contains some of Chemical A and 755 ml of Chemical B. Estimate how much less of Chemical A than Chemical B was in the mixture.

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