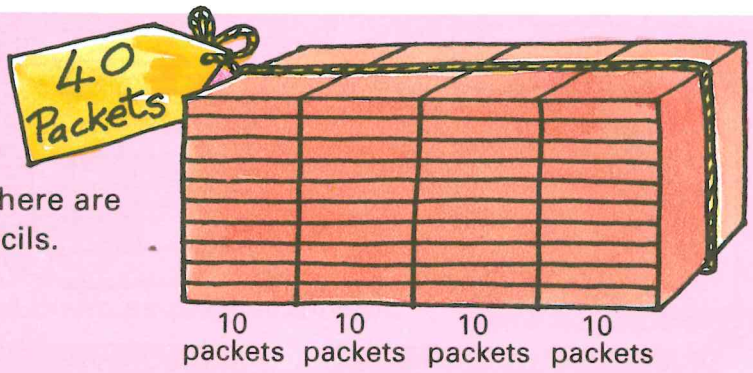
Multiplying by tens



Altogether there are 40×18 pencils.

To multiply by 40 — multiply by 10 and then multiply the answer by 4.

We write

$$\begin{array}{r} 18 \\ \times 40 \\ \hline 720 \end{array}$$

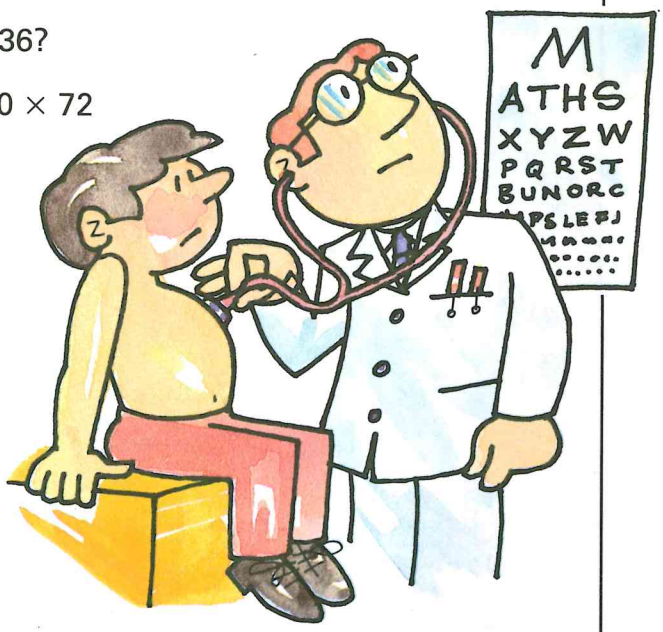
1 **(a)** $\begin{array}{r} 21 \\ \times 40 \\ \hline \end{array}$ **(b)** $\begin{array}{r} 33 \\ \times 30 \\ \hline \end{array}$ **(c)** $\begin{array}{r} 72 \\ \times 70 \\ \hline \end{array}$ **(d)** $\begin{array}{r} 54 \\ \times 90 \\ \hline \end{array}$ **(e)** $\begin{array}{r} 84 \\ \times 60 \\ \hline \end{array}$ **(f)** $\begin{array}{r} 49 \\ \times 50 \\ \hline \end{array}$

(g) $\begin{array}{r} 321 \\ \times 30 \\ \hline \end{array}$ **(h)** $\begin{array}{r} 122 \\ \times 40 \\ \hline \end{array}$ **(i)** $\begin{array}{r} 134 \\ \times 60 \\ \hline \end{array}$ **(j)** $\begin{array}{r} 119 \\ \times 80 \\ \hline \end{array}$ **(k)** $\begin{array}{r} 101 \\ \times 50 \\ \hline \end{array}$ **(l)** $\begin{array}{r} 203 \\ \times 40 \\ \hline \end{array}$

2 Which product is greater: 20×436 or 40×236?

3 Find: **(a)** 30×216 **(b)** 60×108 **(c)** 90×72
What do you notice about your answers?

4 If your heart beats 72 times every minute, how many times does it beat in half an hour?

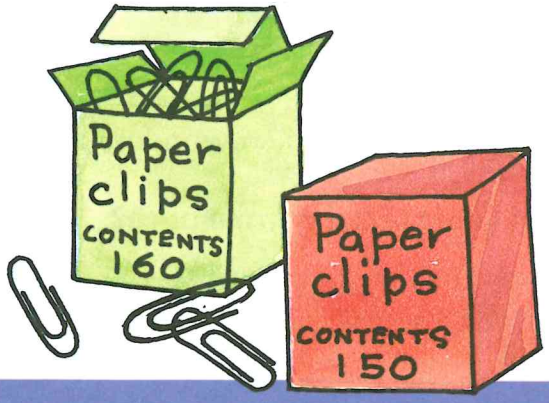


Watch the zeros!

$\begin{array}{r} 80 \\ \times 30 \\ \hline 2400 \end{array}$	$\begin{array}{r} 130 \\ \times 60 \\ \hline 7800 \end{array}$	$\begin{array}{r} 300 \\ \times 20 \\ \hline 6000 \end{array}$	$\begin{array}{r} 120 \\ \times 50 \\ \hline 6000 \end{array}$	$\begin{array}{r} 75 \\ \times 40 \\ \hline 3000 \end{array}$

5 **(a)** $\begin{array}{r} 40 \\ \times 20 \\ \hline \end{array}$ **(b)** $\begin{array}{r} 90 \\ \times 40 \\ \hline \end{array}$ **(c)** $\begin{array}{r} 120 \\ \times 70 \\ \hline \end{array}$ **(d)** $\begin{array}{r} 230 \\ \times 30 \\ \hline \end{array}$ **(e)** $\begin{array}{r} 34 \\ \times 50 \\ \hline \end{array}$ **(f)** $\begin{array}{r} 205 \\ \times 40 \\ \hline \end{array}$

(g) $\begin{array}{r} 150 \\ \times 60 \\ \hline \end{array}$ **(h)** $\begin{array}{r} 100 \\ \times 70 \\ \hline \end{array}$ **(i)** $\begin{array}{r} 450 \\ \times 20 \\ \hline \end{array}$ **(j)** $\begin{array}{r} 140 \\ \times 50 \\ \hline \end{array}$ **(k)** $\begin{array}{r} 300 \\ \times 30 \\ \hline \end{array}$ **(l)** $\begin{array}{r} 75 \\ \times 80 \\ \hline \end{array}$



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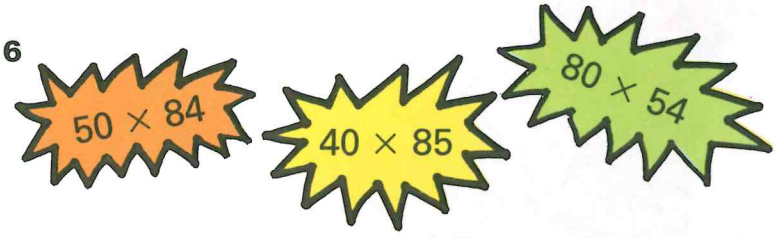

Which product is **(a)** smallest, **(b)** largest?

7 Are there more paper clips in 60 red packets or 50 green packets?