

**TARGET** To practise using a formal written method for short multiplication.

*Examples*

$\begin{array}{r} 826 \\ \times 12 \\ \hline 9912 \\ \hline 37 \end{array}$	$6 \times 12 = 72$ (carry 7) $(2 \times 12) + 7 = 31$ (carry 3) $(8 \times 12) + 3 = 99$	$\begin{array}{r} 1594 \\ \times 7 \\ \hline 11158 \\ \hline 462 \end{array}$
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**A**

Copy and complete.

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| <p>1 <math>14 \times 5</math></p> | <p>5 <math>269 \times 4</math></p> |
| <p>2 <math>58 \times 3</math></p> | <p>6 <math>124 \times 9</math></p> |
| <p>3 <math>36 \times 6</math></p> | <p>7 <math>542 \times 8</math></p> |
| <p>4 <math>47 \times 2</math></p> | <p>8 <math>835 \times 7</math></p> |

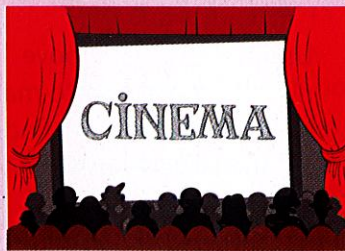
Work out

- 9  $178 \times 3$
- 10  $566 \times 2$
- 11  $215 \times 8$
- 12  $348 \times 4$
- 13  $290 \times 7$
- 14  $367 \times 5$
- 15  $425 \times 6$
- 16  $253 \times 9$
- 17 There are 275 staples in each box. How many are there in three boxes?
- 18 Each glass has a capacity of 235 ml. What is the capacity of eight glasses?

**B**

Work out

- 1  $435 \times 9$
- 2  $687 \times 12$
- 3  $326 \times 7$
- 4  $479 \times 6$
- 5  $163 \times 8$
- 6  $729 \times 9$
- 7  $647 \times 5$
- 8  $964 \times 6$
- 9  $3057 \times 8$
- 10  $1439 \times 7$
- 11  $4876 \times 3$
- 12  $1385 \times 11$
- 13  $2984 \times 9$
- 14  $7069 \times 4$
- 15  $2578 \times 7$
- 16  $3195 \times 12$
- 17 A factory canteen prepares 1358 meals every day. How many does it prepare in five days?
- 18 A holiday costs £739 per person. How much does it cost for seven people?
- 19 A cinema holds 478 people. All eight screenings of a film are sold out. How many people see the film?



**C**

Work out

- 1  $27159 \times 6$
- 2  $28045 \times 9$
- 3  $47829 \times 11$
- 4  $19327 \times 8$
- 5  $20369 \times 5$
- 6  $42185 \times 7$
- 7  $83597 \times 12$
- 8  $71226 \times 9$
- 9  $50473 \times 6$
- 10  $27658 \times 5$
- 11  $36817 \times 11$
- 12  $47289 \times 8$
- 13  $30794 \times 9$
- 14  $45982 \times 12$
- 15  $84605 \times 8$
- 16  $78296 \times 7$
- 17 The runner up in a television talent show received 41 837 votes. Nine times as many people voted for the winner. How many votes did the winner receive?
- 18 Each packet of chewing gum has 6 sticks. How many sticks are there in 24 675 packets?

**B**

<b>1</b> 40 <sup>2</sup>	<b>4</b> 20 <sup>2</sup>	<b>7</b> 343	<b>10</b> 10 <sup>3</sup>
<b>2</b> 60 <sup>2</sup>	<b>5</b> 90 <sup>2</sup>	<b>8</b> 3 <sup>3</sup>	
<b>3</b> 30 <sup>2</sup>	<b>6</b> 5 <sup>3</sup>	<b>9</b> 1728	

**11** 1<sup>3</sup> = 1 × 1 × 1 = 1  
 2<sup>3</sup> = 2 × 2 × 2 = 8  
 3<sup>3</sup> = 3 × 3 × 3 = 27  
 4<sup>3</sup> = 4 × 4 × 4 = 64  
 5<sup>3</sup> = 5 × 5 × 5 = 125  
 6<sup>3</sup> = 6 × 6 × 6 = 216  
 7<sup>3</sup> = 7 × 7 × 7 = 343  
 8<sup>3</sup> = 8 × 8 × 8 = 512  
 9<sup>3</sup> = 9 × 9 × 9 = 729  
 10<sup>3</sup> = 10 × 10 × 10 = 1000  
 11<sup>3</sup> = 11 × 11 × 11 = 1331  
 12<sup>3</sup> = 12 × 12 × 12 = 1728

**C**

<b>1</b> 500 <sup>2</sup>	<b>4</b> 1000 <sup>2</sup>	<b>7</b> 216 000	<b>10</b> 3375
<b>2</b> 70 <sup>2</sup>	<b>5</b> 110 <sup>2</sup>	<b>8</b> 1 000 000	
<b>3</b> 200 <sup>2</sup>	<b>6</b> 8000	<b>9</b> 343 000	

**11** 0<sup>2</sup> = 0  
 1<sup>2</sup> = 0 + 1 = 1  
 2<sup>2</sup> = 1 + 3 = 4  
 3<sup>2</sup> = 4 + 5 = 9  
 4<sup>2</sup> = 9 + 7 = 16  
 5<sup>2</sup> = 16 + 9 = 25  
 6<sup>2</sup> = 25 + 11 = 36  
 7<sup>2</sup> = 36 + 13 = 49  
 8<sup>2</sup> = 49 + 15 = 64  
 9<sup>2</sup> = 64 + 17 = 81  
 10<sup>2</sup> = 81 + 19 = 100  
 11<sup>2</sup> = 100 + 21 = 121  
 12<sup>2</sup> = 121 + 23 = 144  
 13<sup>2</sup> = 144 + 25 = 169  
 14<sup>2</sup> = 169 + 27 = 196  
 15<sup>2</sup> = 196 + 29 = 225  
 16<sup>2</sup> = 225 + 31 = 256  
 17<sup>2</sup> = 256 + 33 = 289  
 18<sup>2</sup> = 289 + 35 = 324  
 19<sup>2</sup> = 324 + 37 = 361  
 20<sup>2</sup> = 361 + 39 = 400

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**A**

<b>1</b> 98	<b>5</b> 225	<b>9</b> 714	<b>13</b> 942g
<b>2</b> 216	<b>6</b> 174	<b>10</b> 3356	<b>14</b> 1470
<b>3</b> 415	<b>7</b> 835	<b>11</b> 1248	
<b>4</b> 268	<b>8</b> 3304	<b>12</b> 2022	

**B**

<b>1</b> 1770	<b>5</b> 5984	<b>9</b> 12 166	<b>13</b> 1813
<b>2</b> 1716	<b>6</b> 3285	<b>10</b> 7767	<b>14</b> 13 212 km
<b>3</b> 7857	<b>7</b> 17 658	<b>11</b> 43 725	<b>15</b> 3488
<b>4</b> 2548	<b>8</b> 58 752	<b>12</b> 35 802	

**C**

<b>1</b> 284 886	<b>6</b> 208 971	<b>11</b> 223 164	
<b>2</b> 33 156	<b>7</b> 55 941	<b>12</b> 399 483	
<b>3</b> 374 712	<b>8</b> 485 936	<b>13</b> 103 496	
<b>4</b> 127 395	<b>9</b> 250 368	<b>14</b> 365 238 kg	
<b>5</b> 185 184	<b>10</b> 105 548	<b>15</b> £174 936	

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**A**

<b>1</b> 70	<b>6</b> 1116	<b>11</b> 1720	<b>16</b> 2277
<b>2</b> 174	<b>7</b> 4336	<b>12</b> 1392	<b>17</b> 825
<b>3</b> 216	<b>8</b> 5845	<b>13</b> 2030	<b>18</b> 1880 ml
<b>4</b> 94	<b>9</b> 534	<b>14</b> 1835	
<b>5</b> 1076	<b>10</b> 1132	<b>15</b> 2550	

**B**

<b>1</b> 3915	<b>6</b> 6561	<b>11</b> 14 628	<b>16</b> 38 340
<b>2</b> 8244	<b>7</b> 3235	<b>12</b> 15 235	<b>17</b> 6790
<b>3</b> 2282	<b>8</b> 5784	<b>13</b> 26 856	<b>18</b> £5173
<b>4</b> 2874	<b>9</b> 24 456	<b>14</b> 28 276	<b>19</b> 3824
<b>5</b> 1304	<b>10</b> 10 073	<b>15</b> 18 046	

**C**

<b>1</b> 162 954	<b>7</b> 1 003 164	<b>13</b> 277 146
<b>2</b> 252 405	<b>8</b> 641 034	<b>14</b> 551 784
<b>3</b> 526 119	<b>9</b> 302 838	<b>15</b> 676 840
<b>4</b> 154 616	<b>10</b> 138 290	<b>16</b> 548 072
<b>5</b> 101 845	<b>11</b> 404 987	<b>17</b> 376 533
<b>6</b> 295 295	<b>12</b> 378 312	<b>18</b> 148 050

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**A**

<b>1</b> 240	<b>4</b> 1222	<b>7</b> 608	<b>10</b> 918
<b>2</b> 476	<b>5</b> 234	<b>8</b> 364	<b>11</b> 621
<b>3</b> 600	<b>6</b> 384	<b>9</b> 725	<b>12</b> 1260

**B**

<b>1</b> 3060	<b>6</b> 1798	<b>11</b> 3776	<b>16</b> 5206
<b>2</b> 6902	<b>7</b> 1728	<b>12</b> 9240	<b>17</b> 8554
<b>3</b> 1357	<b>8</b> 2352	<b>13</b> 2793	<b>18</b> 7052
<b>4</b> 1260	<b>9</b> 1369	<b>14</b> 5385	<b>19 a)</b> 8352
<b>5</b> 2482	<b>10</b> 2100	<b>15</b> 6696	<b>b)</b> 5372

**C**

<b>1</b> 25 993	<b>8</b> 88 576	<b>15</b> 55 769
<b>2</b> 83 904	<b>9</b> 43 845	<b>16</b> 144 171
<b>3</b> 43 056	<b>10</b> 94 848	<b>17 a)</b> 342 002
<b>4</b> 67 392	<b>11</b> 23 760	<b>b)</b> 33 210
<b>5</b> 67 850	<b>12</b> 40 836	<b>18</b> 974 169
<b>6</b> 158 544	<b>13</b> 189 720	
<b>7</b> 44 352	<b>14</b> 46 816	

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**A**

<b>1</b> 576	<b>4</b> 2067	<b>7</b> 1872	<b>10</b> 1550
<b>2</b> 1235	<b>5</b> 1079	<b>8</b> 962	<b>11</b> 3182
<b>3</b> 1134	<b>6</b> 360	<b>9</b> 1568	<b>12</b> 1665

**B**

<b>1</b> 4784	<b>8</b> 17 430	<b>15</b> 98 838
<b>2</b> 75 024	<b>9</b> 7225	<b>16</b> 149 984
<b>3</b> 9386	<b>10</b> 17 204	<b>17</b> 86 670
<b>4</b> 7406	<b>11</b> 53 664	<b>18</b> 210 105
<b>5</b> 16 856	<b>12</b> 35 688	<b>19</b> 12 864
<b>6</b> 12 122	<b>13</b> 333 132	<b>20</b> £603
<b>7</b> 5772	<b>14</b> 113 004	

**C**

<b>1</b> 209 423	<b>7</b> 1 891 186	<b>13</b> 242 351
<b>2</b> 962 255	<b>8</b> 1 615 890	<b>14</b> 272 853
<b>3</b> 1 720 538	<b>9</b> 42 946	<b>15</b> 76 797
<b>4</b> 1 513 176	<b>10</b> 97 875	<b>16</b> 267 168
<b>5</b> 2 094 872	<b>11</b> 146 568	<b>17</b> 55 173
<b>6</b> 1 418 990	<b>12</b> 161 304	