I can convert between miles and kilometres.

To convert from miles to kilometres, divide the number of miles by 5, then multiply by 8.

1. Use the conversion information above to convert these measurements from miles to kilometres. The first one has been done for you.

<table>
<thead>
<tr>
<th>100 miles</th>
<th>100 ÷ 5 = 20</th>
<th>20 × 8 = 160</th>
<th>160km</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>125 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>155 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Draw a circle around the larger measurement.
   a) 50 miles 50km
   b) 200 miles 350km
   c) 160 miles 240km
To convert from kilometres to miles, divide the number of kilometres by 8, then multiply by 5.

3. Use the conversion information above to convert these measurements from kilometres to miles. The first one has been done for you.

<table>
<thead>
<tr>
<th>Kilometres</th>
<th>Conversion</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>160</td>
<td>160 ÷ 8 = 20, 20 × 5 = 100</td>
<td>100</td>
</tr>
<tr>
<td>320</td>
<td></td>
<td></td>
</tr>
<tr>
<td>144</td>
<td></td>
<td></td>
</tr>
<tr>
<td>176</td>
<td></td>
<td></td>
</tr>
<tr>
<td>272</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Place a tick by the measurements which are greater than 75 miles.

<table>
<thead>
<tr>
<th>Kilometres</th>
<th>Tick if greater than 75 miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>136</td>
<td></td>
</tr>
<tr>
<td>104</td>
<td></td>
</tr>
<tr>
<td>128</td>
<td></td>
</tr>
</tbody>
</table>

5. Two friends go for a drive. Harry records the distance of his journey as 75 miles. Franz records his journey in kilometres. The distance Franz travelled was 125km. Who travelled the farthest? Show how you worked out the answer.
Converting Miles and Kilometres **Answers**

1. Use the conversion information above to convert these measurements from miles to kilometres. The first one has been done for you.

| 100 miles | 100 ÷ 5 = 20  
20 × 8 = 160 | 160km |
|-----------|-----------------|-------|
| 120 miles | 120 ÷ 5 = 24  
24 × 8 = 192 | 192km |
| 150 miles | 150 ÷ 5 = 30  
30 × 8 = 240 | 240km |
| 125 miles | 125 ÷ 5 = 25  
25 × 8 = 200 | 200km |
| 155 miles | 155 ÷ 5 = 31  
31 × 8 = 248 | 248km |

2. Draw a circle around the larger measurement.
   a) 50 miles  50 km
   b) 200 miles 350 km
   c) 160 miles 240 km

3. Use the conversion information above to convert these measurements from miles to kilometres. The first one has been done for you.

| 160 km | 160 ÷ 8 = 20  
20 × 5 = 100 | 100 miles |
|--------|-----------------|-----------|
| 320 km | 320 ÷ 8 = 40  
40 × 5 = 200 | 200 miles |
| 144 km | 144 ÷ 8 = 18  
18 × 5 = 90 | 90 miles |
| 176 km | 176 ÷ 8 = 22  
22 × 5 = 110 | 110 miles |
| 272 km | 272 ÷ 8 = 34  
34 × 5 = 170 | 170 miles |
4. Place a tick by the measurements which are greater than 75 miles.

<table>
<thead>
<tr>
<th>Tick if greater than 75 miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>136km ✓</td>
</tr>
<tr>
<td>104km</td>
</tr>
<tr>
<td>128km ✓</td>
</tr>
</tbody>
</table>

5. Two friends go for a drive. Harry records the distance of his journey as 75 miles. Franz records his journey in kilometres. The distance Franz travelled was 125km. Who travelled the furthest? Show how you worked out the answer.

*Franz travelled the furthest.*

*Convert miles to kilometres:*

\[
75 \div 5 = 15 \times 8 = 120km
\]

*120km is less than 125km*
To convert from miles to kilometres, divide the number of miles by 5, then multiply by 8.

1. Use the conversion information above to convert these measurements from miles to kilometres. The first one has been done for you.

<table>
<thead>
<tr>
<th>Miles</th>
<th>Calculation</th>
<th>Kilometres</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 miles</td>
<td>( \frac{150}{5} = 30 ) 30 ( \times 8 = 240 )</td>
<td>240 km</td>
</tr>
<tr>
<td>220 miles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>195 miles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>325 miles</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Convert these measurements from miles to kilometres. As the measurements are not multiples of 5, the calculations will include decimals.

<table>
<thead>
<tr>
<th>Miles</th>
<th>Calculation</th>
<th>Kilometres</th>
</tr>
</thead>
<tbody>
<tr>
<td>132 miles</td>
<td>( \frac{132}{5} = 26.4 ) 26.4 ( \times 8 = 211.2 )</td>
<td>211.2 km</td>
</tr>
<tr>
<td>198 miles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>231 miles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>179 miles</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To convert from kilometres to miles, divide the number of kilometres by 8, then multiply by 5.

3. Use the conversion information above to convert these measurements from kilometres to miles. The first one has been done for you.

<table>
<thead>
<tr>
<th>Kilometres</th>
<th>Calculation</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>184 km</td>
<td>$\frac{184}{8} = 23$</td>
<td>$115$</td>
</tr>
<tr>
<td>216 km</td>
<td></td>
<td></td>
</tr>
<tr>
<td>192 km</td>
<td></td>
<td></td>
</tr>
<tr>
<td>320 km</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Convert these measurements from kilometres to miles. As the measurements are not multiples of 8, the calculations will include decimals.

<table>
<thead>
<tr>
<th>Kilometres</th>
<th>Calculation</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>132 km</td>
<td>$\frac{132}{8} = 16.5$</td>
<td>$82.5$</td>
</tr>
<tr>
<td>196 km</td>
<td></td>
<td></td>
</tr>
<tr>
<td>236 km</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220 km</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Order these measurements from shortest to longest:

   a) 42 km  30 miles  20 miles
       shortest                longest

   b) 190 km 100 miles 115 miles
       shortest                longest
6. A marathon race lasts approximately 26 miles. Lara says that this is more than 35km. Is she right? Show how you know.

7. Alain is on his holidays in England. His car records his journey in kilometres. He has been told it is 75 miles to go from the port to the first town he is visiting. If he travels at 50km per hour, will he complete his journey in less than 3 hours?
Converting Miles and Kilometres **Answers**

1. Use the conversion information above to convert these measurements from miles to kilometres. The first one has been done for you.

<table>
<thead>
<tr>
<th>Miles</th>
<th>Conversion Process</th>
<th>Kilometres</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>150 ÷ 5 = 30, 30 × 8 = 240</td>
<td>240 km</td>
</tr>
<tr>
<td>220</td>
<td>220 ÷ 5 = 44, 44 × 8 = 352</td>
<td>352 km</td>
</tr>
<tr>
<td>195</td>
<td>195 ÷ 5 = 39, 39 × 8 = 312</td>
<td>312 km</td>
</tr>
<tr>
<td>325</td>
<td>325 ÷ 5 = 65, 65 × 8 = 520</td>
<td>520 km</td>
</tr>
</tbody>
</table>

2. Convert these measurements from miles to kilometres. As the measurements are not multiples of 5, the calculations will include decimals.

<table>
<thead>
<tr>
<th>Miles</th>
<th>Conversion Process</th>
<th>Kilometres</th>
</tr>
</thead>
<tbody>
<tr>
<td>132</td>
<td>132 ÷ 5 = 26.4, 26.4 × 8 = 211.2</td>
<td>211.2 km</td>
</tr>
<tr>
<td>198</td>
<td>198 ÷ 5 = 39.6, 39.6 × 8 = 316.8</td>
<td>316.8 km</td>
</tr>
<tr>
<td>231</td>
<td>231 ÷ 5 = 46.2, 46.2 × 8 = 369.6</td>
<td>369.6 km</td>
</tr>
<tr>
<td>179</td>
<td>179 ÷ 5 = 35.8, 35.8 × 8 = 286.4</td>
<td>286.4 km</td>
</tr>
</tbody>
</table>

3. Use the conversion information above to convert these measurements from kilometres to miles. The first one has been done for you.

<table>
<thead>
<tr>
<th>Kilometres</th>
<th>Conversion Process</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>184</td>
<td>184 ÷ 8 = 23, 23 × 5 = 115</td>
<td>115 miles</td>
</tr>
<tr>
<td>216</td>
<td>216 ÷ 8 = 27, 27 × 5 = 135</td>
<td>135 miles</td>
</tr>
<tr>
<td>192</td>
<td>192 ÷ 8 = 24, 24 × 5 = 120</td>
<td>120 miles</td>
</tr>
<tr>
<td>320</td>
<td>320 ÷ 8 = 40, 40 × 5 = 200</td>
<td>200 miles</td>
</tr>
</tbody>
</table>
4. Convert these measurements from kilometres to miles. As the measurements are not multiples of 8, the calculations will include decimals.

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Calculation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>132 km</td>
<td>$132 \div 8 = 16.5$</td>
<td>82.5</td>
</tr>
<tr>
<td></td>
<td>$16.5 \times 5 = 82.5$</td>
<td></td>
</tr>
<tr>
<td>196 km</td>
<td>$196 \div 8 = 24.5$</td>
<td>122.5</td>
</tr>
<tr>
<td></td>
<td>$24.5 \times 5 = 122.5$</td>
<td></td>
</tr>
<tr>
<td>236 km</td>
<td>$236 \div 8 = 29.5$</td>
<td>147.5</td>
</tr>
<tr>
<td></td>
<td>$29.5 \times 5 = 147.5$</td>
<td></td>
</tr>
<tr>
<td>220 km</td>
<td>$220 \div 8 = 27.5$</td>
<td>137.5</td>
</tr>
<tr>
<td></td>
<td>$27.5 \times 5 = 137.5$</td>
<td></td>
</tr>
</tbody>
</table>

5. Order these measurements from shortest to longest:

a) 20 miles | 42 km | 30 miles
shortest | longest
b) 100 miles | 115 miles | 190 km
shortest | longest

6. A marathon race lasts approximately 26 miles. Lara says that this is more than 35km. Is she right? Show how you know.

Lara is right. $26 \div 5 \times 8 = 41.6$
26 miles $\approx 41.6$km. This is more than 35km.

7. Alain is on his holidays in England. His car records his journey in kilometres. He has been told it is 75 miles to go from the port to the first town he is visiting. If he travels at 50km per hour, will he complete his journey in less than 3 hours?

75 miles $= 75 \div 15 \times 8 = 120$km.
If he travels at 50km per hour, in 3 hours he could travel 150km.
He should be able to complete the journey in 3 hours.
### Converting Miles and Kilometres

I can convert between miles and kilometres.

To convert from miles to kilometres, divide the number of miles by 5, then multiply by 8.

To convert from kilometres to miles, divide the number of kilometres by 8, then multiply by 5.

1. Convert these measurements from miles to kilometres. Some of the measurements will have a decimal answer. The first one has been done for you.

<table>
<thead>
<tr>
<th>175 miles</th>
<th>175 ÷ 5 = 35</th>
<th>35 × 8 = 280</th>
<th>280 km</th>
</tr>
</thead>
<tbody>
<tr>
<td>140 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>285 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>202 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>319 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>390 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>241 miles</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Which of these measurements is closest to the first measurement given? Draw a circle around the closest.

<table>
<thead>
<tr>
<th>95 miles</th>
<th>160 km</th>
<th>150 km</th>
<th>148 km</th>
<th>151 km</th>
</tr>
</thead>
<tbody>
<tr>
<td>325 km</td>
<td>190 miles</td>
<td>205 miles</td>
<td>250 miles</td>
<td>215 miles</td>
</tr>
<tr>
<td>135 miles</td>
<td>214 km</td>
<td>220 km</td>
<td>210 km</td>
<td>225 km</td>
</tr>
</tbody>
</table>
3. Convert these measurements from kilometres to miles. Some of the measurements will have a decimal answer. The first one has been done for you.

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<tr>
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</tr>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>76km</td>
<td></td>
<td></td>
</tr>
<tr>
<td>118km</td>
<td></td>
<td></td>
</tr>
<tr>
<td>240km</td>
<td></td>
<td></td>
</tr>
<tr>
<td>216km</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Place the measurements in the correct place on the table.

<table>
<thead>
<tr>
<th>Below 50 Miles</th>
<th>Between 50 and 75 Miles</th>
<th>75 Miles and Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>68km</td>
<td>104km</td>
<td>92km</td>
</tr>
<tr>
<td>136km</td>
<td>76km</td>
<td>120km</td>
</tr>
</tbody>
</table>

5. A long-distance race lasts approximately 25 miles. A competitor has completed 25km. Which of these answers is closest to how far he has left to complete? Draw a circle around the closest answer.

a) 14km
b) 7.5 miles
c) 15 miles
6. Billy is driving from Chelmsford to Manchester. The distance between the two cities is 280km. He travels at a speed of 50 miles per hour. If he sets off at 11:00 a.m., when should he arrive?
Converting Miles and Kilometres **Answers**

1. Convert these measurements from miles to kilometres. Some of the measurements will have a decimal answer. The first one has been done for you.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>175 miles</td>
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</tr>
<tr>
<td></td>
<td>$35 \times 8 = 280$</td>
<td></td>
</tr>
<tr>
<td>140 miles</td>
<td>$140 \div 5 = 28$</td>
<td>224km</td>
</tr>
<tr>
<td></td>
<td>$28 \times 8 = 224$</td>
<td></td>
</tr>
<tr>
<td>285 miles</td>
<td>$285 \div 5 = 57$</td>
<td>456km</td>
</tr>
<tr>
<td></td>
<td>$57 \times 8 = 456$</td>
<td></td>
</tr>
<tr>
<td>202 miles</td>
<td>$202 \div 5 = 40.4$</td>
<td>323.2km</td>
</tr>
<tr>
<td></td>
<td>$40.4 \times 8 = 323.2$</td>
<td></td>
</tr>
<tr>
<td>319 miles</td>
<td>$319 \div 5 = 63.8$</td>
<td>510.4km</td>
</tr>
<tr>
<td></td>
<td>$63.8 \times 8 = 510.4$</td>
<td></td>
</tr>
<tr>
<td>390 miles</td>
<td>$390 \div 5 = 78$</td>
<td>624km</td>
</tr>
<tr>
<td></td>
<td>$78 \times 8 = 624$</td>
<td></td>
</tr>
<tr>
<td>241 miles</td>
<td>$241 \div 5 = 48.2$</td>
<td>385.6km</td>
</tr>
<tr>
<td></td>
<td>$48.2 \times 8 = 385.6$</td>
<td></td>
</tr>
</tbody>
</table>

2. Which of these measurements is closest to the first measurement given? Draw a circle around the closest.

<table>
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<tr>
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3. Convert these measurements from kilometres to miles. Some of the measurements will have a decimal answer. The first one has been done for you.

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</tr>
<tr>
<td>140 km</td>
<td>(140 \div 8 = 17.5) (17.5 \times 5 = 87.5)</td>
<td>87.5 miles</td>
</tr>
<tr>
<td>136 km</td>
<td>(136 \div 8 = 17) (17 \times 5 = 85)</td>
<td>85 miles</td>
</tr>
<tr>
<td>76 km</td>
<td>(76 \div 8 = 9.5) (9.5 \times 5 = 47.5)</td>
<td>47.5 miles</td>
</tr>
<tr>
<td>118 km</td>
<td>(118 \div 8 = 14.75) (14.75 \times 5 = 73.75)</td>
<td>73.75 miles</td>
</tr>
<tr>
<td>240 km</td>
<td>(240 \div 8 = 30) (30 \times 5 = 150)</td>
<td>150 miles</td>
</tr>
<tr>
<td>216 km</td>
<td>(216 \div 8 = 27) (27 \times 5 = 135)</td>
<td>135 miles</td>
</tr>
</tbody>
</table>

4. Place the measurements in the correct place on the table.

<table>
<thead>
<tr>
<th></th>
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a) 14km  

6. Billy is driving from Chelmsford to Manchester. The distance between the two cities is 280km. He travels at a speed of 50 miles per hour. If he sets off at 11:00 a.m., when should he arrive?

2:30 p.m.