Twinkl Tours

I can solve word problems involving all four operations.

Match the word problem with the calculation needed to solve it, answer it and don't forget to check your calculation.

Place card here.	Calculation	Answer	Check It
	$7 \times 6 = \square$ $\square \div 12 = \square$		

Place card here.	Calculation	Answer	Check It
	$8 \times 5 = \square$ $\square \div 16 = \square$		

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	Calculation	Answer	Check It
Place card here.	$108 \div 2 = \square$ pairs $\square$ pairs $\div 8 = \square$		

	Calculation	Answer	Check It
Place card here.	$15 \times 12 = \square$ $\square \times 3 = \square$ $700 - \square = \square$		

	Calculation	Answer	Check It
Place card here.	$120 - 30 = \square$ $\square - 25 = \square$		

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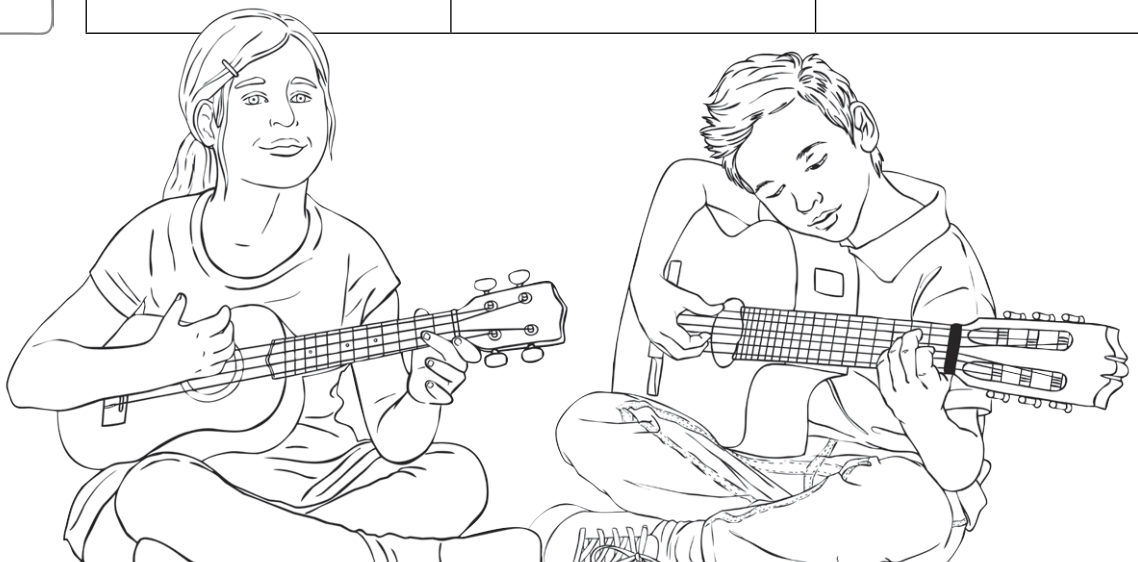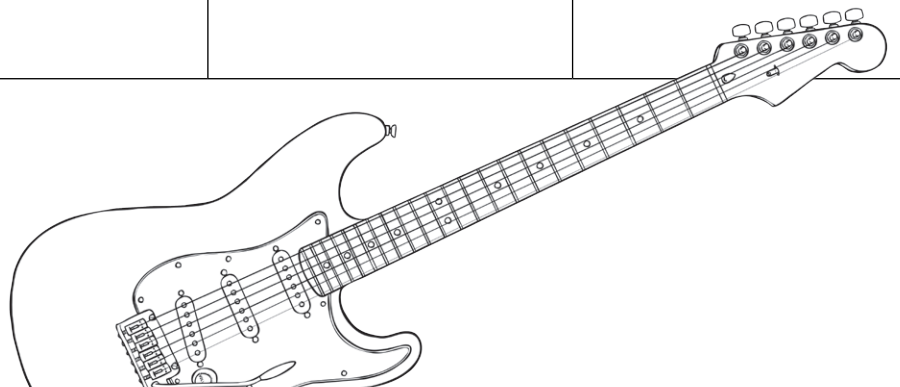
Place card here.	Calculation	Answer	Check It
	$120 - 15 = \square$ $\square \div 4 = \square$		

If each of the 7 band members asks for 6 bottles of water a day and the bottles come in packs of 12, how many packs should Twinkl Tours put on the tour bus?

Each costume rail holds 16 complete rock star outfits. How many rails are needed if each of the 8 band members has a different outfit for each night of a 5-day tour?

The shoe chest holds 108 shoes. How many pairs of shoes can each of the 8 band members take if they share the space equally?

3 band members shower for 12 minutes on the tour bus with a flow rate of 15 litres per minute. If the tank holds 700 litres, is there enough water for another band member to have a shower before refilling the tank?

The band have 2 hours before the show starts. They have to be backstage half an hour before the start time. It will take them about 25 minutes to eat their dinner. How much time do they have left to get changed for the show?

The band are playing 2 sets lasting an hour each. Each song is about 4 minutes long. They will need at least 15 minutes to talk to the audience and tune their instruments between the songs. How many songs can they fit into the concert?

Twinkl Tours **Answers**

Question

If each of the 7 band members asks for 6 bottles of water a day and the bottles come in packs of 12, how many packs should Twinkl Tours put on the tour bus?		
7 × 6 = ☐ ☐ ÷ 12 = ☐	**7 × 6 = 42** **42 ÷ 12 = 3r6** **They would need to order 4 packs.**	**They need 42 bottles (7 × 6) each day.** **3 packs of 12 would only give them 36, so they would need 4 packs to have enough.**

Each costume rail holds 16 complete rock star outfits. How many rails are needed if each of the 8 band members has a different outfit for each night of a 5-day tour?		
8 × 5 = ☐ ☐ ÷ 16 = ☐	**8 × 5 = 40 outfits for 5 days.** **40 ÷ 16 = 2r8** **They need 3 rails.**	**They need 3 rails. 2 wouldn't be enough as 2 would hold 32 outfits (2 × 16) and they have 40 (8 × 5).**

The shoe chest holds 108 shoes. How many pairs of shoes can each of the 8 band members take if they share the space equally?		
108 ÷ 2 = ☐ pairs ☐ pairs ÷ 8 = ☐	**108 ÷ 2 = 54 pairs** **54 pairs ÷ 8 = 6r6** **They can take 6 pairs each to share the space equally.**	**The shoe chest holds 108 shoes which is 54 pairs** **(108 ÷ 2).** **6 × 8 = 48 pairs will fit, but** **7 × 8 = 56 pairs won't.**

3 band members shower for 12 minutes on the tour bus with a flow rate of 15 litres per minute. If the tank holds 700 litres, is there enough water for another band member to have a shower before refilling the tank?		
15 × 12 = ☐ ☐ × 3 = ☐ 700 − ☐ = ☐	**15 × 12 = 180 litres per person.** **180 × 3 = 540** **540 litres would be used.** **700 − 540 = 160 litres left in the tank.** **There isn't enough water because each person needs 180 litres.**	**15 × 12 = 180 litres per shower.** **4 showers would need** **180 × 4 = 720 litres.** **The tank only holds 700 litres, so it would need refilling.**

The band have 2 hours before the show starts. They have to be backstage half an hour before the start time. It will take them about 25 minutes to eat their dinner. How much time do they have left to get changed for the show?		
120 − 30 = ☐ ☐ − 25 = ☐	**120 minutes (2 hours) − 30 minutes (time they need to be backstage) = 90 minutes** **90 minutes left − 25 minutes (for dinner) = 65 minutes to get ready for the show.**	**65 + 25 + 30 = 120 minutes**

The band are playing 2 sets lasting an hour each. Each song is about 4 minutes long. They will need at least 15 minutes to talk to the audience and tune their instruments between the songs. How many songs can they fit into the concert?		
120 − 15 = ☐ ☐ ÷ 4 = ☐	**120-minute set − 15 minutes between songs = 105 minutes** **105 ÷ 4 = 26r1** **They could fit 26 songs into the concert.**	**26 × 4 = 104 minutes of music** **104 + 15 minutes between songs = 119 minutes**

Twinkl Tours

I can solve word problems involving all four operations.

Can you solve these Twinkl Tours problems?

Remember RUCSAC and show all your working out.

1) If each of the 7 band members asks for 25 bottles of water a week and the bottles come in packs of 12, how many packs should Twinkl Tours put on the tour bus each week?

2) Each costume rail holds 36 complete rock star outfits. How many rails are needed if each of the 8 band members has a different outfit for each night of a 15-night tour?

3) The shoe chest holds 228 shoes. How many pairs of shoes can each of the 8 band members take if they share the space equally?

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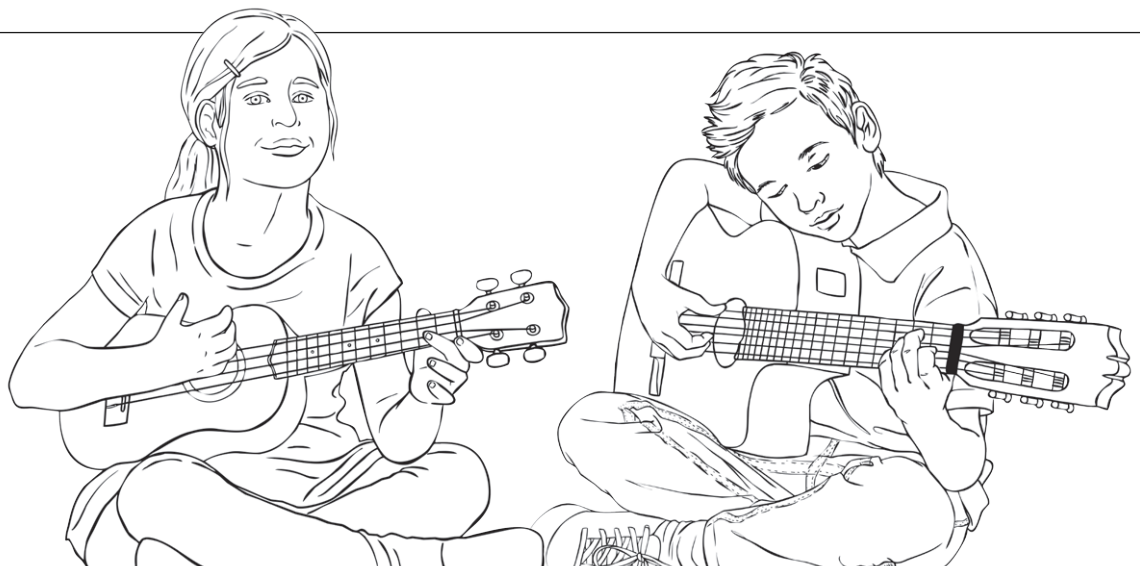Focused education on life's walk!
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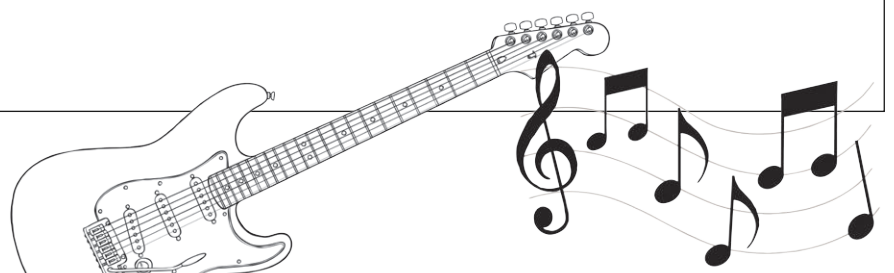
4) 3 band members shower for 12 minutes on the tour bus with a flow rate of 15 litres per minute. If the tank holds 715 litres, is there enough water for another band member to have a shower before refilling the tank?

5) The band have 2 hours before the show starts. They have to be backstage half an hour before the start time. It will take them about 32 minutes to eat their dinner and 7 minutes to walk to the venue. How much time do they have left to get changed for the show?

6) The band are playing 2 sets lasting 45 minutes each. Each song is about 4 minutes long. They will need a total of at least 15 minutes to talk to the audience and tune their instruments between the songs. How many songs can they fit into the concert?

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Twinkl Tours **Answers**

Question	Answer
1.	If each of the 7 band members asks for 25 bottles of water a week and the bottles come in packs of 12, how many packs should Twinkl Tours put on the tour bus each week?
	15 packs
2.	Each costume rail holds 36 complete rock star outfits. How many rails are needed if each of the 8 band members has a different outfit for each night of a 15-night tour?
	4 rails
3.	The shoe chest holds 228 shoes. How many pairs of shoes can each of the 8 band members take if they share the space equally?
	14 pairs each
4.	3 band members shower for 12 minutes on the tour bus with a flow rate of 15 litres per minute. If the tank holds 715 litres, is there enough water for another band member to have a shower before refilling the tank?
	No, they would need 720 litres for 4 showers.
5.	The band have 2 hours before the show starts. They have to be backstage half an hour before the start time. It will take them about 32 minutes to eat their dinner and 7 minutes to walk to the venue. How much time do they have left to get changed for the show?
	51 minutes
6.	The band are playing 2 sets lasting 45 minutes each. Each song is about 4 minutes long. They will need at least 15 minutes to talk to the audience and tune their instruments between the songs. How many songs can they fit into the concert?
	18 songs

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Twinkl Tours

I can solve word problems involving all four operations.

Can you solve these Twinkl Tours problems?

Remember RUCSAC and show all your working out.

1) If each of the 9 band members asks for 35 bottles of water a week and the bottles come in packs of 12, how many packs should Twinkl Tours put on the tour bus each week?

2) Each costume rail holds 56 complete rock star outfits. How many rails are needed if each of the 8 band members has a different outfit for each night of an 18-night tour?

3) The shoe chest holds 542 shoes. How many pairs of shoes can each of the 9 band members take if they share the space equally?

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4) 4 band members shower for 12 minutes on the tour bus with a flow rate of 15 litres per minute. If the tank holds 725 litres, is there enough water for 2 more band members to have a shower before refilling the tank?

5) The band have two and a quarter hours before the show starts. They have to be backstage half an hour before the start time. It will take them about 32 minutes to eat their dinner and 9 minutes to walk to the venue. How much time do they have left to get changed for the show?

6) The band are playing 2 sets lasting 48 minutes each. Each song is about 4 minutes long. They will need at least 13 minutes to talk to the audience and tune their instruments between the songs. How many songs can they fit into the concert?

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Twinkl Tours **Answers**

Question	Answer
1.	If each of the 9 band members asks for 35 bottles of water a week and the bottles come in packs of 12, how many packs should Twinkl Tours put on the tour bus each week?
	27 packs
2.	Each costume rail holds 56 complete rock star outfits. How many rails are needed if each of the 8 band members has a different outfit for each night of an 18-night tour?
	3 rails
3.	The shoe chest holds 542 shoes. How many pairs of shoes can each of the 9 band members take if they share the space equally?
	30 pairs
4.	4 band members shower for 12 minutes on the tour bus with a flow rate of 15 litres per minute. If the tank holds 725 litres, is there enough water for 2 more band members to have a shower before refilling the tank?
	No. There is only enough in the tank for 4 showers.
5.	The band have two and a quarter hours before the show starts. They have to be backstage half an hour before the start time. It will take them about 32 minutes to eat their dinner and 9 minutes to walk to the venue. How much time do they have left to get changed for the show?
	64 minutes
6.	The band are playing 2 sets lasting 48 minutes each. Each song is about 4 minutes long. They will need at least 13 minutes to talk to the audience and tune their instruments between the songs. How many songs can they fit into the concert?
	20 songs

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Working out what the question is asking me to do and choosing the correct calculation:

☆☆☆☆☆

Using written methods to calculate the answer:

☆☆☆☆☆

Checking my answer using the inverse operation:

☆☆☆☆☆

Rate Your Performance

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