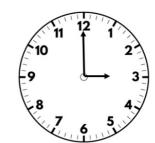
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	- 1 ca	in use	my ti	mes to	ible kn	owled	ge to	calcul	ate mu	ltiplic	ations							
			and th		inging	the or	der of	the n	umber	s we	are mi	ultiply	ing, d	oes no	rt			_
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Flashback 4

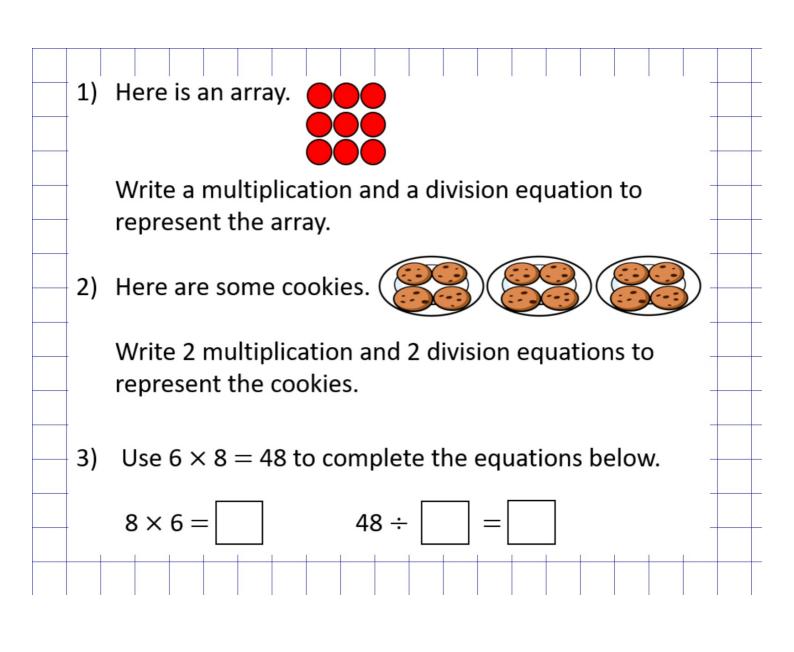
Year 3 | Week 1 | Day 1

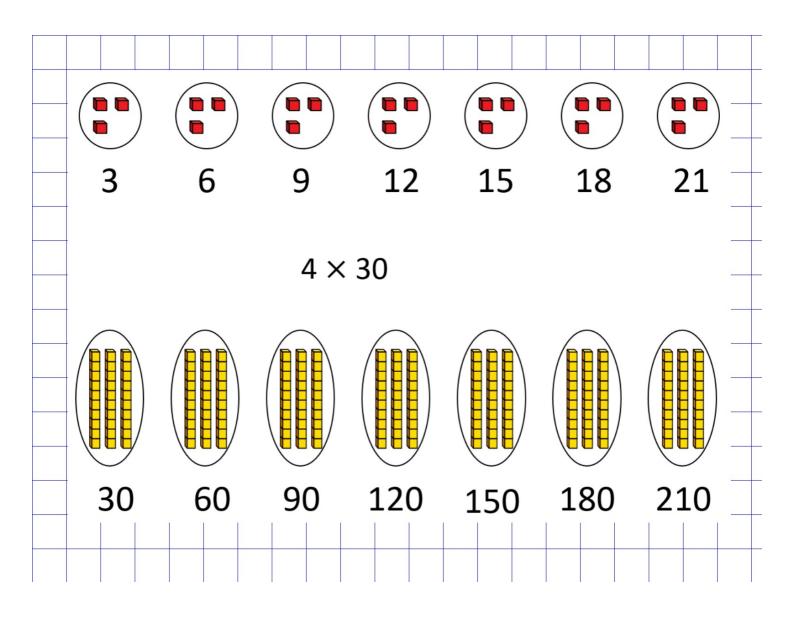
1) What is 3×8 ?

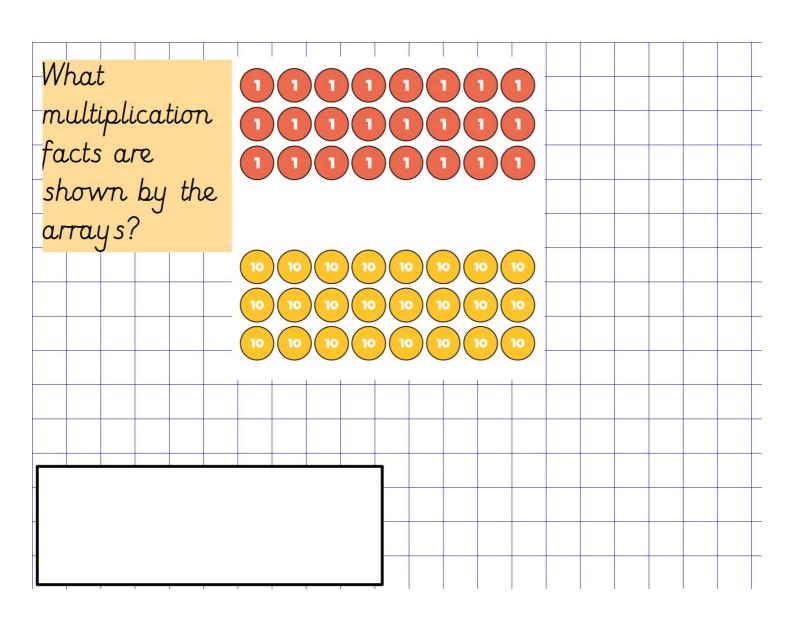


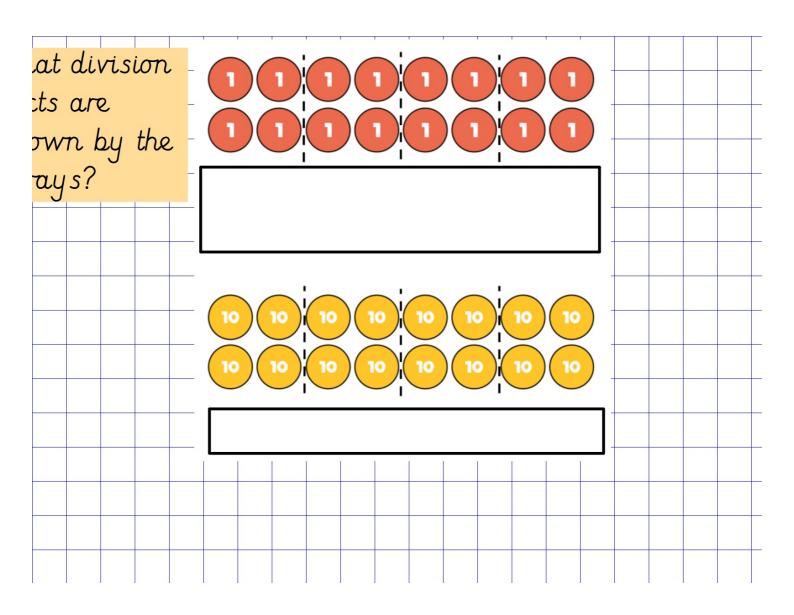
- 2) Calculate 8×6
- 3) Multiply four by twelve
- 4) Write down a 3-digit number with 2 in the tens column.

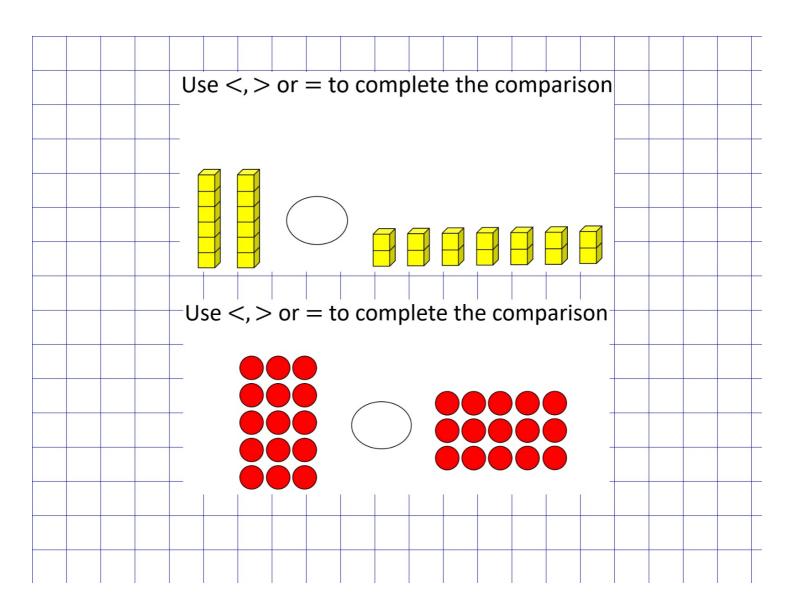


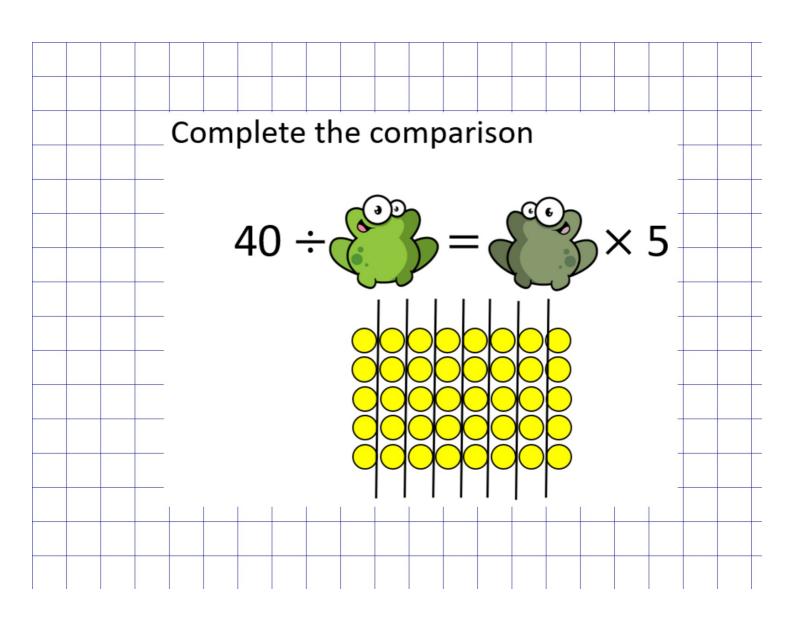












	1
Use base 10 to represent the multiplications. Complete the calculations.	Use base 10 to represent the multiplications.
a) 2 × 4 b) 5 × 3 c) 5 × 2 d) 2 × 8	Complete the calculations.
2 × 40 5 × 30 5 × 20 80 × 2	a) 2 × 4 b) 5 × 3 c) 5 × 2 d) 2 × 8
Complete the number sentences to describe the pictures.	2 × 40 5 × 30 5 × 20 80 × 2
a) <u>1907.1902 1907.1902 1907.1902</u> (a)	
	Complete the number sentences to describe the pictures.
	a) Skyle Skyle Skyle (a
4 × 5 = 20 + 5 =	
****	agingo agingo agingo agingo
b) ** ** ** **	
	4 × 5 = 20 ÷ 5 =
5 × 4 = 20 + 4 =	
	Nijah makes these arrays.
3) Nijah makes these arrays.	00000 00000
0000 0000	00000
0000 0000	1 00000 00000 -
Complete the number sentences.	
4 × 3 = 4 × 30 =	Complete the number sentences.
	5 × 3 = 50 × 30 =
What is the same about the arrays? What is different?	
4) Write <, > or = to compare the arrays.	What is the same about the arrays? What is different?
o) • • • • • • • • • • • • • • • • • • •	
5 x 6 () 6 x 4	
b) 会会会 会会会会会会	
南南南 南南南南南南 3×6 6×3	
会会会 会会会	
全会	
	

5) Write <, > or = to compare the calculations.		4) Write <, > or = to compare the arrays.
a) 4 x 3 2 x 6 c) 5 x 3	3 x 4	n) and a solution of the distance of the dista
a) 4 x 3 2 x 6 c) 5 x 3 b) 8 x 3 4 x 6 d) 3 x 4	4 × 5	5 x 2 6 x 2
I know 5 x 7 = 35		b) \$\frac{1}{2} \frac{1}{2} \f
Use Dora's fact to complete the calculations.	-	- **
a) 5 × 70 c) 50 × 7 e) 350 ÷ 5	
b) 7 x 5 d) 35 + 5	350 + 7	5) Write <, > or = to compare the calculations.
		a) 5 × 3 2 × 10 c 10 × 3 3 × 10
		b) 5x8 4x 10 d) 3x5 4x 2

7) Complete the number sentences.
a) 3 × = 210 c) 4 × 90 =
- b) 240 ÷ 6 = d) 120 ÷ = 2
8) Mr Jones buys 12 large jugs.
The total cost of the jugs is £240
How much does each jug cost?
How did you work this out?
9) Here are some calculation cards.
30+6 4 x 6 27+3 4 x 8
8 x 3 12 x 2 5 x 6 18 + 3
Write each calculation in the table.
Less than 6 × 4 Equal to 6 × 4 Greater than 6 × 4
Write one more calculation in each column.
Did you have to work out all the calculations?
10) Huan throws two darts at the dartboard.
He multiplies the numbers he hits together.
Huan's score is 240
What two numbers could the darts have landed in?
5 10 40
20 12
- 24 3
30 80
60
How many different answers can you find?

Frtension 1	Extension 2
Whitney says, 8 × 8 is greater	True or false?
than two lots of 4 × 8	6 × 7 < 6 + 6 + 6 + 6 + 6 + 6 + 6 - 6
Do you agree? Can you prove your answer?	$7 \times 6 = 7 \times 3 + 7 \times 3$ $2 \times 3 + 3 > 5 \times 3$
Extension 3	
Rosie has 240 cakes to sell. She puts the same number of cakes in	
each box and has no cakes left over. Which of these boxes could she use?	
10 20 30 40	
50 60 80 100	



Comparing statements

The correct symbol has been used in each example.

$$8 \times 4 = 6 \times 4 + 2 \times 4$$

$$8 \times 4 < 8 \times 2 + 8 \times 3$$

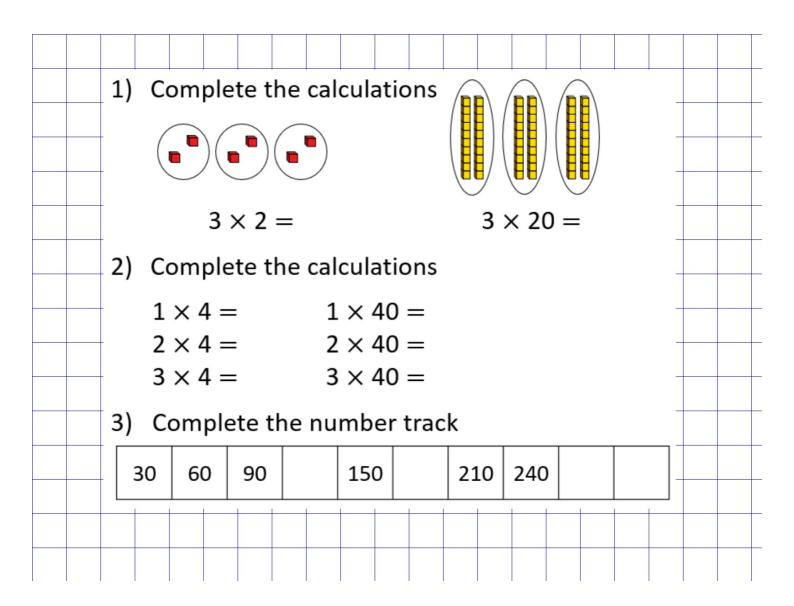
$$8 \times 4 > 2 \times 4 + 2 \times 4$$

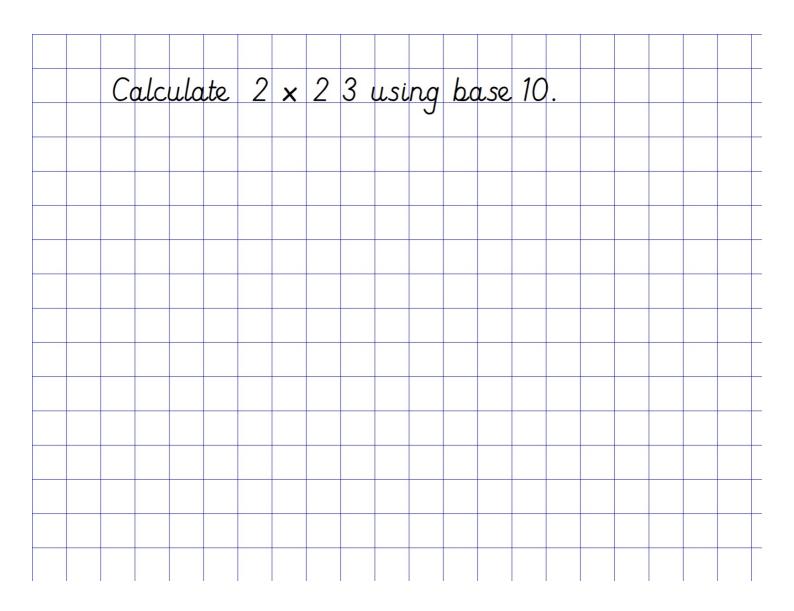
$$8 \times 4 = 8 + 8 + 8 + 8$$

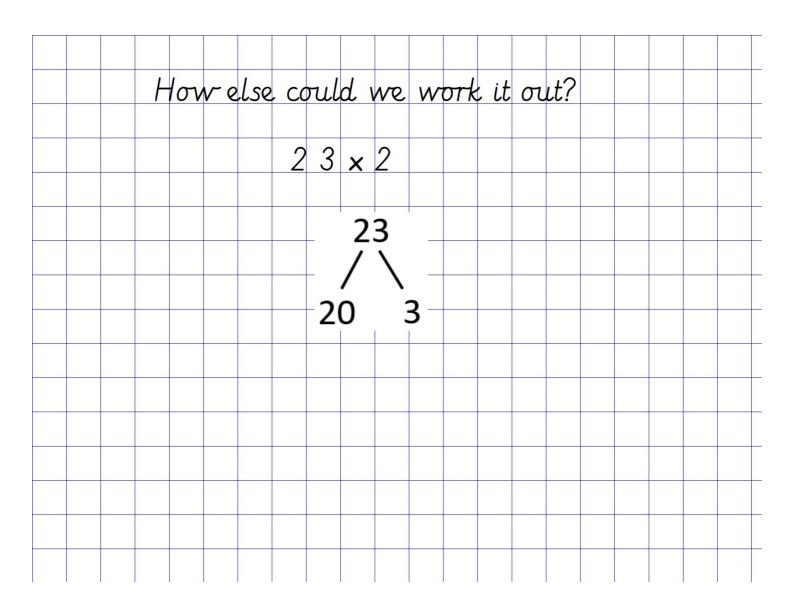


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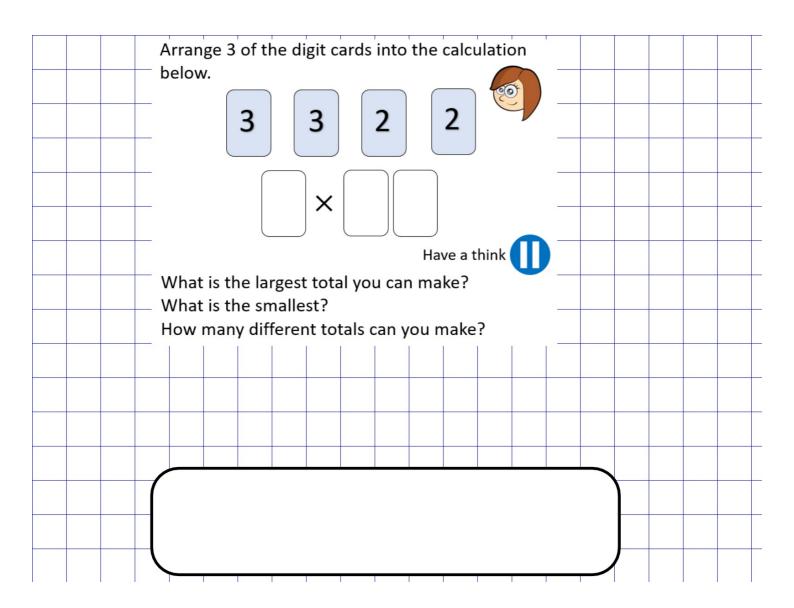








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																•	



1) Calculate these multiplications using base 10 or partitioning. a) 3 x 21 = b) 4 x 22 = c) 34 x 2 = d) 13 x 3 = e) 23 x 3 = f) 4 x 12 =	1) Calculate these multiplications using base 10 or partitioning. a) 2 x 21 = b) 2 x 22 = c) 34 x 2 = d) 11 x 2 = e) 23 x 2 = f) 2 x 12 = g) 2 x 14 = h) 44 x 2 =
2) Find the missing number in the multiplication. x 3 = 96 12 34 32 x 3	2) Find the missing number in the multiplication. X 2 = 68
x 2 = 68 23 31 34	2 2 4 8 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
x 2 6 8	3 2 6 3 1 X
	c)

2 2 4 8				
1 L				
c)				
3 2 6 3				
1				
×				
3) d)				
Use 3 digit cards to complete the calculation below.				
^ 04				
Have a think				
Which 3 cards could you use? Can you find more than one solution?				

4) \	Whi	ch person h	as got ti	he answer w	rong in								
		n of these?	03 B01 t			· 							
		1	3	1	3								
		×	3	×	3								
		1	6	3	9								
- a	a)	Kayla		Annie	,	· ·							
	-,	1	4	1	4								
		x	2	x	2								
-3		2	8	1	6	0							
	b)	Brendo	ın.	Max									

- 0		For a) and b) explai	n their mista	akes.								
- (For a) and b) explai	n their mista	ikes.								
- c - 5)		For a) and b) explai	n their mista	akes.	_							
5)	c) F	Adam saves	£13 ev	ery week. Ho									
5) a	a) /	Adam saves has he save	£13 eve d after 3	ery week. Ho	ow muc	_							
5) a	a) / i b) i	Adam saves has he save Mike runs 6 How far has	£13 eve d after 3 km ever she run	ery week. Ho 3 weeks? ry day for a f in total?	ow muc	ıt.							
5) a	a) / a) / b) i	Adam saves has he save Mike runs 6 How far has Ben walks 1	£13 eve d after 3 km ever he run 2 miles	ery week. Ho 3 weeks? ry day for a f in total? a day. How i	ow muc	ıt.							
5) a - b	a) / a) / b) l c) l	Adam saves has he save Mike runs 6 How far has Ben walks 1 does he wal	£13 event di after 3 km event he run 2 miles lk in 4 di	ery week. Ho 3 weeks? ry day for a f in total? a day. How i	ow muc fortnigh many m	ıt.							
5) a - b	aa) //	Adam saves has he save Mike runs 6 How far has Ben walks 1 does he wal A supermar Each box ha	£13 evo d after 3 km ever he run 2 miles k in 4 di ket has s 22 apj	ery week. Ho 3 weeks? ry day for a f in total? a day. How i ays? 4 boxes of a ples in it. If 1	ow muc fortnigh many m pples. 11 peopl	nit.							
5) a - b	aa) // i i i i i i i i i i i i i i i i i i	Adam saves has he save Mike runs 6 How far has Ben walks 1 does he wal A supermar Each box ha go to the su	£13 eve d after 3 km ever he run 2 miles lk in 4 de ket has is 22 app permari	ery week. Ho 3 weeks? ry day for a f in total? a day. How i ays? 4 boxes of a ples in it. If 1 ket to buy 9	ow muc fortnigh many m pples. l1 peopl apples	niles							
5) a - b	a) / (b) (b) (c) (d) / (d) / (d) / (e)	Adam saves has he save Mike runs 6 How far has Ben walks 1 does he wal A supermar Each box ha go to the su	£13 eve d after 3 km ever he run 2 miles lk in 4 de ket has is 22 app permari	ery week. Ho 3 weeks? ry day for a f in total? a day. How i ays? 4 boxes of a ples in it. If 1	ow muc fortnigh many m pples. l1 peopl apples	niles							
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5) a - b	a) / (b) (b) (c) (d) / (d) / (d) / (e)	Adam saves has he save Mike runs 6 How far has Ben walks 1 does he wal A supermar Each box ha go to the su each will the	£13 eve d after 3 km ever he run 2 miles lk in 4 de ket has is 22 app permari	ery week. Ho 3 weeks? ry day for a f in total? a day. How i ays? 4 boxes of a ples in it. If 1 ket to buy 9	ow muc fortnigh many m pples. l1 peopl apples	niles							
5) a - b	a) / (b) (b) (c) (d) (d) / (d) / (e)	Adam saves has he save Mike runs 6 How far has Ben walks 1 does he wal A supermar Each box ha go to the su each will the	£13 eve d after 3 km ever he run 2 miles lk in 4 de ket has is 22 app permari	ery week. Ho 3 weeks? ry day for a f in total? a day. How i ays? 4 boxes of a ples in it. If 1 ket to buy 9	ow muc fortnigh many m pples. l1 peopl apples	niles							



Related calculations

If I know $3 \times 6 = 18$, I also know...

 $3 \text{ cm} \times 6 = 18 \text{ cm}$

6 litres \times 3 = 18 litres

 $3 \text{ m} \times 6 = 18 \text{ m}$



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Flashback 4

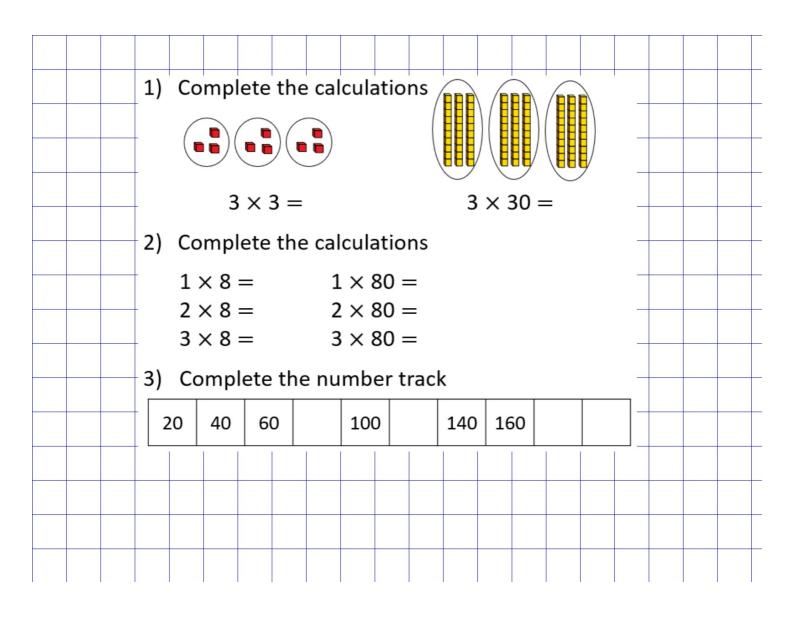
Year 3 | Week 1 | Day 2

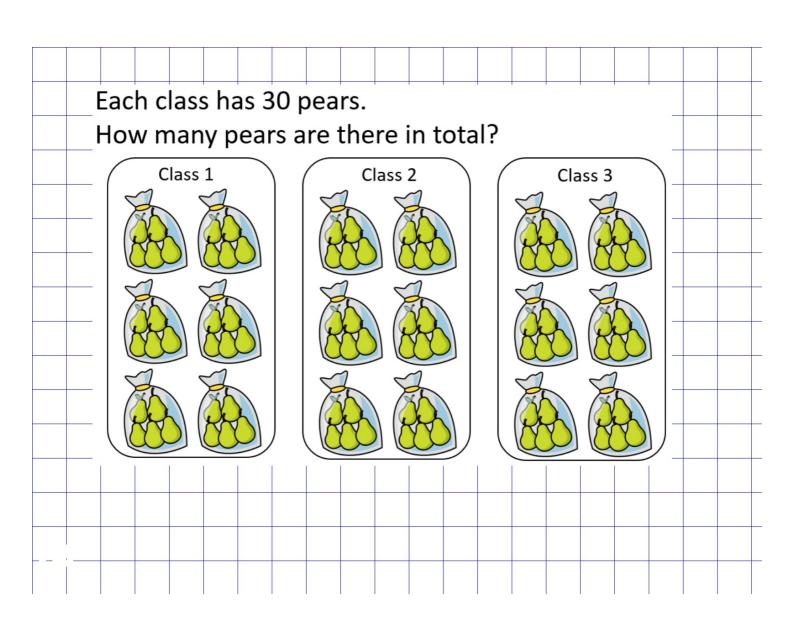
1) Compare using <, > or = 3×8 \bigcirc 3×4

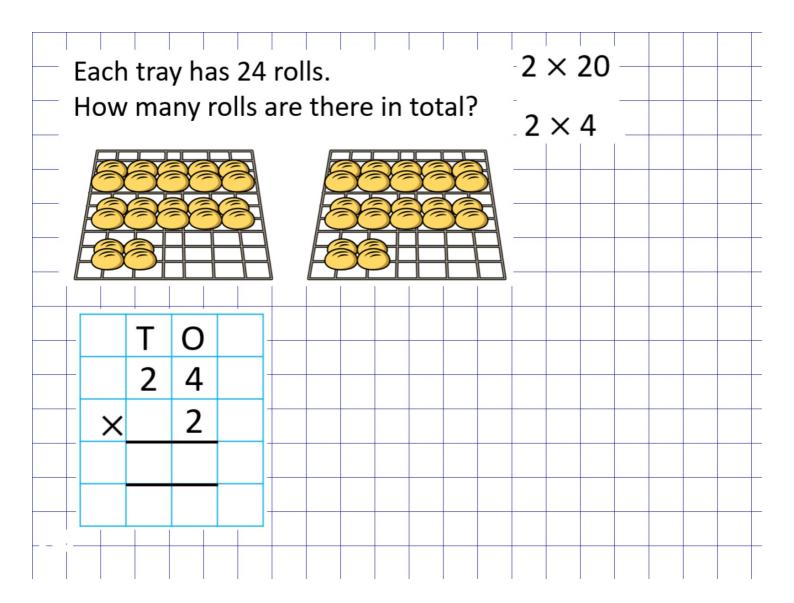


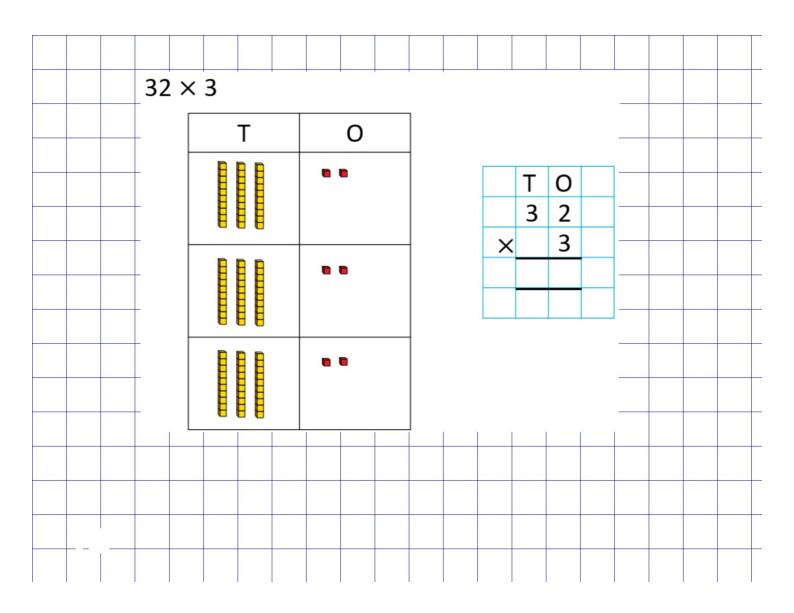
- 2) What is $88 \div 8$?
- 3) Divide 28 by 4
- 4) What is 10 more than 475?

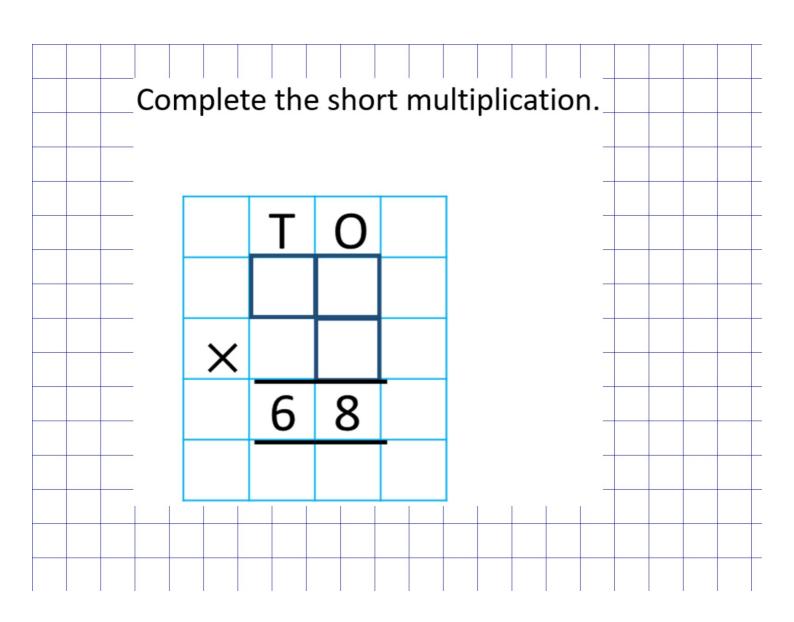


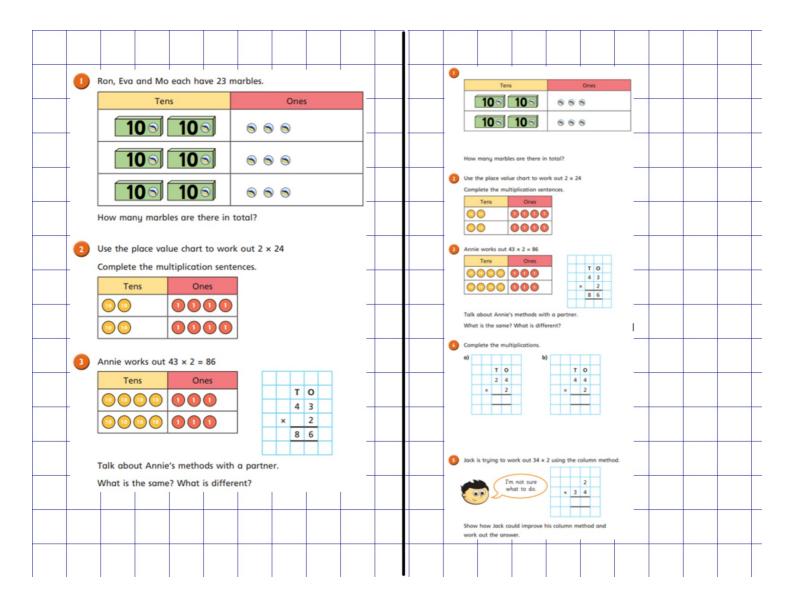








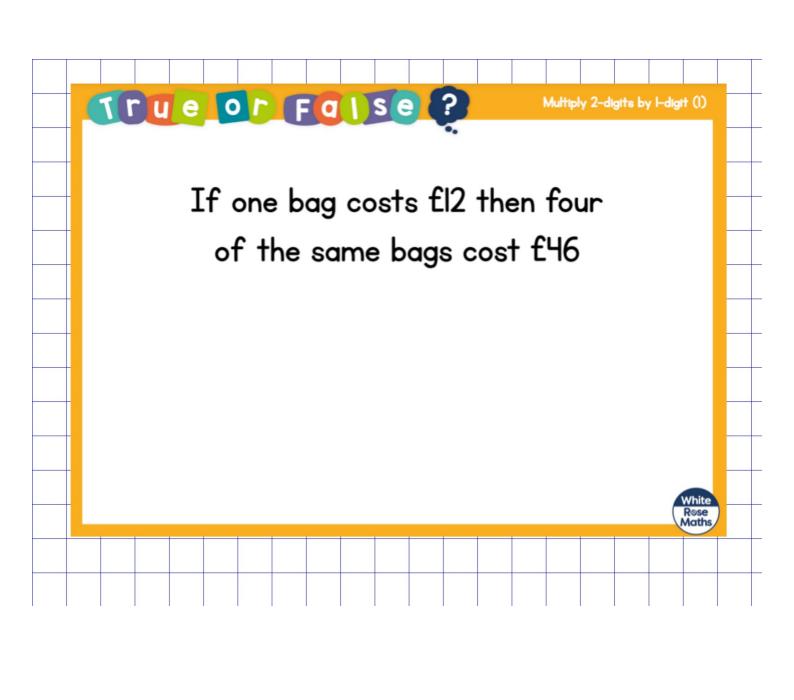




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a)	Т	П		b)			П			-							
		Т	0				Т	0										
_		2	4				4	4										
		×	2				×	2										
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		_	Ш					Ш										
c	31 x	3			d)	42 x	2				-							
C	ompa	e ans	wers v	vith a p	artne	er.												
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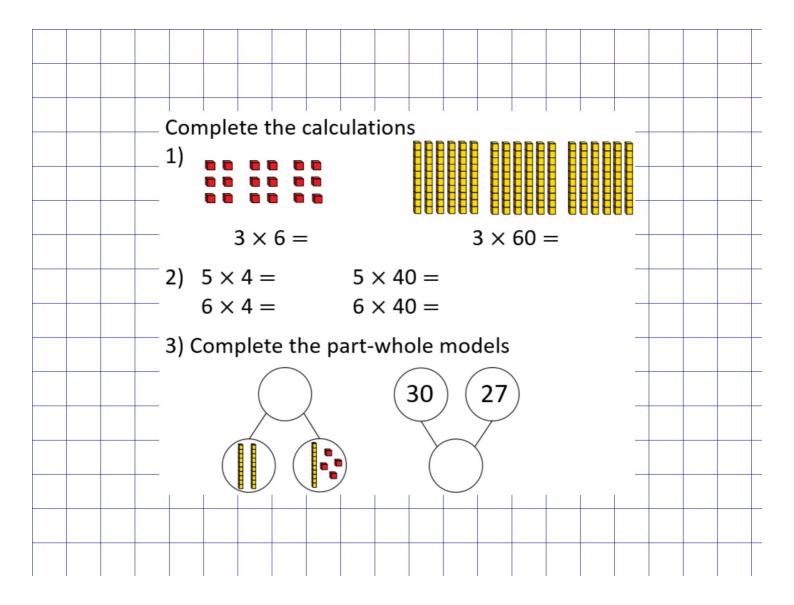
Whitney has multiplied a 2-digit number by a 1-digit number. I had to do			
30 + 9 = 39 to get my answer.			
What numbers is Whitney multiplying?			
Fill in the missing digits.			
x 3 9			
3 Filip used the column method to work out 41 × 2			
I can work this multiplication out in my head.			
a) How do you think Eva will work this out in her head?			
b) Tick the multiplications that you can work out in your head. 4 × 22 3 × 23 3 × 33			
3 × 23			
12 × 4 3 × 32 4 × 20			

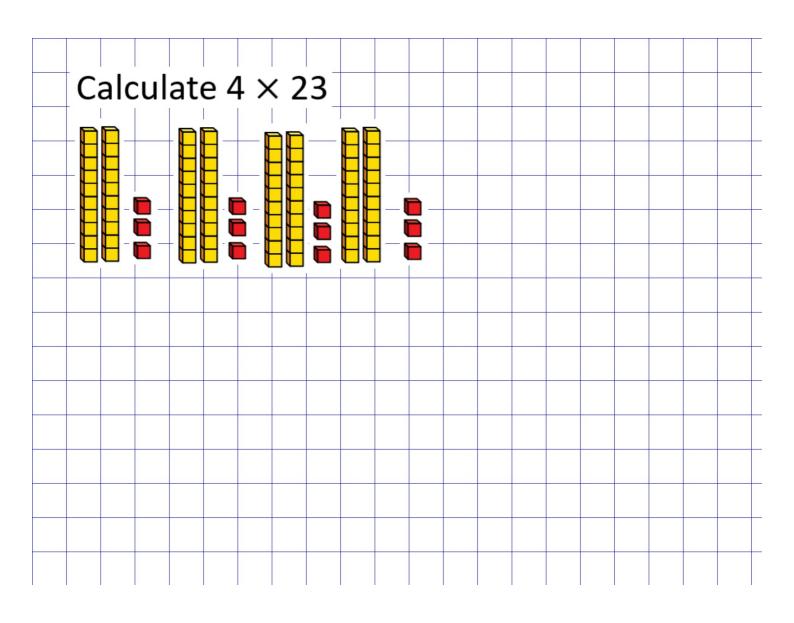
2) Teddy completes the same calculation as Alex. Can you spot and explain his mistake?
4 3
x 2
8 0 6
3) Dexter says,
4 × 21 = 2 × 42
Is Dexter correct?
is Dexter correct?

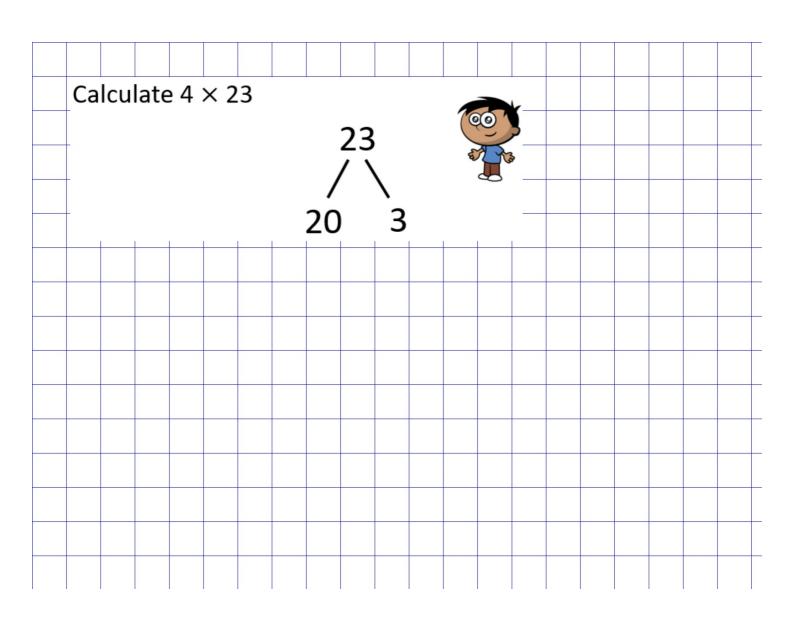


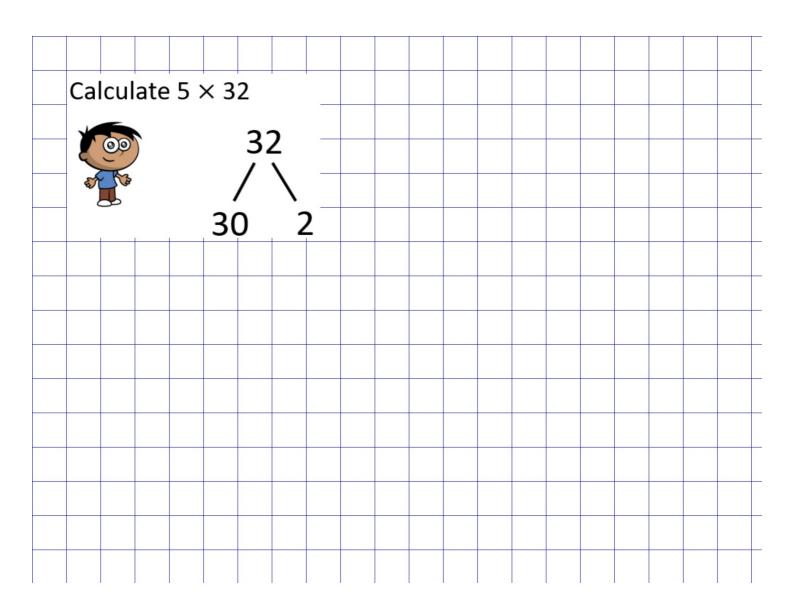
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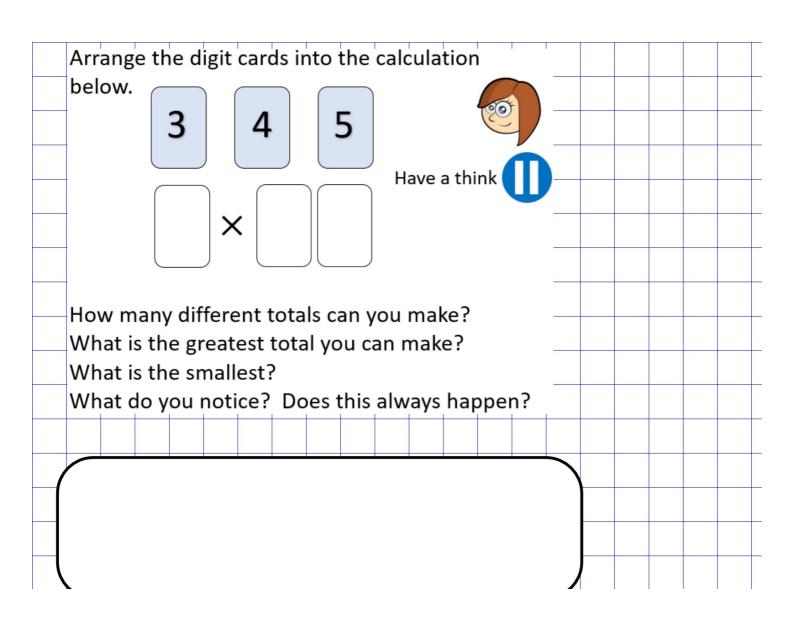




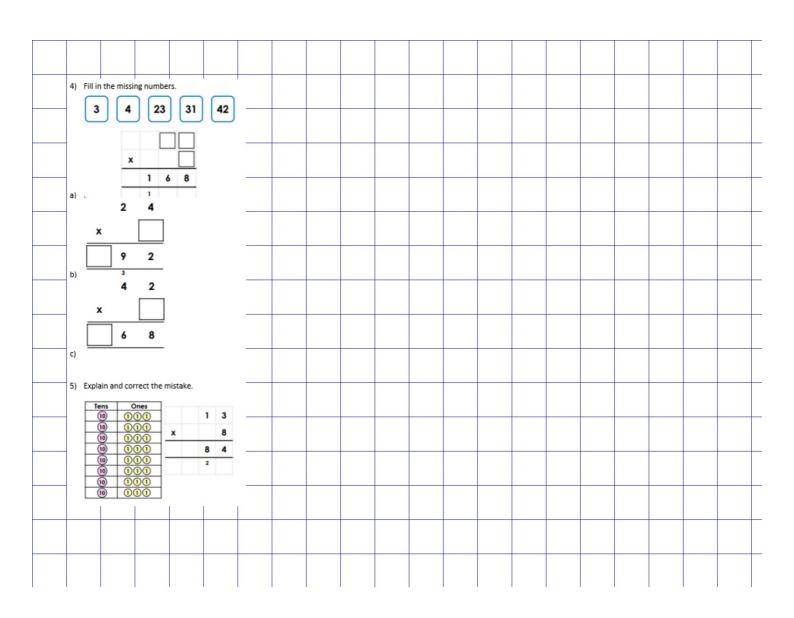








1) Calculate these statements using the partitioning method. a) 5 x 22 = b) 34 x 3 = c) 5 x 35 = d) 18 x 3 = e) 26 x 3 = f) 4 x 14 = g) 5 x 15 = h) 6 x 23 = i) 3 x 24 = j) 19 x 5 =	1) Calculate these statements using the partitioning method. a) 5 x 12 = b) 26 x 2 = c) 5 x 15 = d) 18 x 2 = e) 26 x 2 = f) 5 x 14 = g) 2 x 35 = h) 2 x 29 = i) 2 x 34 = j) 19 x 5 =
Use 3 digit cards to complete the calculation below. X = 72	2) Which two numbers multiply together to make 72? X = 72 2 36 5 10 25 17
Which 3 cards could you use? Can you find more than one solution?	3) 2 36 5 10 25 17 Using these numbers, how many different multiplication sentences can you make and work out?
3) What if you used these cards? 2 6 4 Have a think	Example: 2 x 5 = 10
How many different totals can you make? What is the greatest possible total? What is the smallest?	



6) Each child has three digit cards to try and make 130. Who can make the answer closest?			
4 3 2 4 5 3			
Eve x 4 x 3 Abe			
a) Carl travels 78 miles a day. How many miles does he drive in 9 days? Can you predict how many miles he'd travel in			
10 days? c) What about 100?			

				62												
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