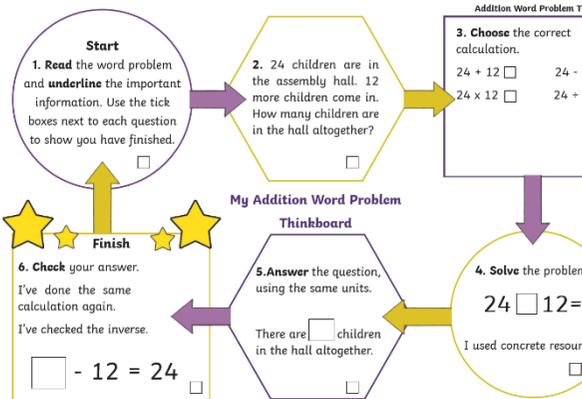


Maths task grid for Year 3 / 4 – Summer 2 Week 3

Please select the task appropriate to your child's group.

Make sure you write the short date followed by the LI above every piece of work.

	Miss Dippie's group	Mrs Heath's group	Mrs Price/ Mrs Pittarello's group				
Monday	<p>LI: To solve addition word problems</p> <p>Starter: Use these numbers.</p>  <p>1) Write an odd number less than 40. 2) Write an even number between 20 and 30.</p> <p>This week we are going to be using your knowledge of addition and subtraction and applying it to solve word problems. Here is a think board that can help you work out the addition problems in steps.</p> <p>Task: Use the steps to solve the problem. Write each step out in your book to show how you got to your answer.</p> <p>1)</p>  <p>2)</p>	<p>LI: 1 step word problems</p> <p>Now we have practised our addition, subtraction, multiplication and division methods. We need to be able to apply them to word problems. Cut out 12 pieces of paper. Put one of these words/phrases on each piece of paper Total, subtract, multiply, divide, less than, more than, difference, times, share, how many more than, minus, plus.</p> <p>Sort them into 4 groups according to which mathematical sign they are associated with +, -, x, ÷</p> <p>(Note to adults – make sure children place 'how many more than' with the subtraction sign)</p> <p>Work out which operation you need for each of the following problems. Write the sum you think you need to do to solve the answer.</p> <ol style="list-style-type: none"> 27 sweets are shared between 3 children. How many do they get each? What is the difference between 356 and 514? 15 times 4 What is 78 more than 63? 	<p>LI: Bar models to solve problems</p> <p>Today we are going to apply our addition and subtraction to solving word problems. To help us with this we are going to also use bar models to understand and represent the problem. E.g.</p> <p>There are 3,597 boys and girls in a school. 2,182 are boys. How many are girls?</p> <table border="1" data-bbox="1482 646 2094 721"> <tr> <td colspan="2" style="text-align: center;">3,597</td> </tr> <tr> <td style="width: 50%;">2,182</td> <td style="width: 50%; text-align: center;">?</td> </tr> </table> <p>Find the answer, using written methods.</p> <p>Now have a go at solving these problems, using bar models. Make sure you use column addition and subtraction to solve them:</p> <ol style="list-style-type: none"> Dora and Mo are collecting book tokens. Dora has collected 1,452 tokens. Mo has collected 621 tokens fewer than Dora. How many tokens has Mo collected? James has collected 1,072 football cards. He buys another 789. How many does he have altogether? 	3,597		2,182	?
3,597							
2,182	?						

Start
1. Read the word problem and underline the important information. Use the tick boxes next to each question to show you have finished.

2. Irina has 10p more than me. I have 38p. How much does Irina have?

3. Choose the correct calculation.
 $38 + 10 \square$ $38 - 10 \square$
 $38 \times 10 \square$ $38 \div 10 \square$

My Addition Word Problem Thinkboard
 4. Solve the problem
 $38 \square + 10 = \square$
 I used concrete resources

5. Answer the question, using the same units.
 Irina has \square p.

Finish
 6. Check your answer. I've done the same calculation again. I've checked the inverse.
 $\square - 10 = 38$

3)

Start
1. Read the word problem and underline the important information. Use the tick boxes next to each question to show you have finished.

2. A glitter pen costs 11p more than a pencil. A pencil costs 23p. How much does a glitter pen cost?

3. Choose the correct calculation.
 $23 + 11 \square$ $23 - 11 \square$
 $23 \times 11 \square$ $23 \div 11 \square$

My Addition Word Problem Thinkboard
 4. Solve the problem
 $23 \square + 11 = \square$
 I used concrete resources

5. Answer the question, using the same units.
 A glitter pen costs \square p.

Finish
 6. Check your answer. I've done the same calculation again. I've checked the inverse.
 $\square - 11 = 23$

Challenge: Find the missing numbers.

- | | | |
|---|---|---|
| 4 | 2 | 5 |
| + | | 3 |
| | | |
| 5 | | 7 |
- | | | |
|-----------|---|-----------|
| \square | 4 | 6 |
| + | | 3 |
| | | |
| 6 | 6 | \square |
- | | | |
|-----------|-----------|-----------|
| 7 | \square | 2 |
| + | | \square |
| | | |
| \square | 4 | \square |
| | | |
| \square | 8 | 9 |

Jack, Rosie and Eva are playing a computer game. Jack has 3,452 points, Rosie has 4,039 points and Eva has 10,989 points.

- How many points do Jack and Rosie have altogether?
- How many points do Rosie and Eva have altogether?
- How many points do Jack and Eva have altogether?
- How many points do Jack, Rosie and Eva have altogether?

Tuesday

LI: To solve subtraction word problems

LI: 1 step word problems

LI: Solving 2 step word problems using bar models

Starter:

These symbols show the number 52.



What are these numbers?

1.  =

2.  =

3.  =

Today we are going to be looking at subtraction word problems. Just like yesterday, follow the steps:

- 1) Read the questions carefully.
- 2) Write out the calculation you are being asked to solve.
- 3) Use a method to solve the answer e.g. number line, your fingers, counters etc.
- 4) Write the answer using correct units.
- 5) Use the inverse to check your answer.

Task:

- 1) If you had 10 current buns and 8 had been eaten. How many do you have left?
- 2) If you had 20 jellybeans but you dropped 6 of them. How many are you still holding?
- 3) If you 15 pages in a book but you read 6 of them. How many pages have you got left to read?
- 4) If you have 12 ice cubes but 7 of them melted. How many are still solid?
- 5) If you have 20 glass bottles but 13 of them smashed. How many are left?

Challenge: Find the missing numbers

Today we are going to try and solve some problems. It is helpful when solving problems to highlight the key information. Eg James has 24 sweets, Sue has 36 sweets. How many less has James got than Sue?

Highlight the key information in each of these questions. Then use any method you think is helpful to solve the problem

1	There are 37 girls and 56 boys in the school. How many children are there?
2	There are 112 people in the swimming pool. 34 leave, how many are left?
3	One bag of sweets has 64 sweets in it, the other 28. How many sweets are there altogether?
4	Some children share 56 strawberries. Each child gets 8 strawberries. How many children are there?
5	There are 89 children, 45 are girls. How many boys are there?
6	Tulips are sold in bunches of 9. Randle buys 81 tulips. How many bunches does he buy?
7	There are 67 cabbages. The slugs eat 56. How many are there now?
8	Harry plants 15 trees in rows of 4. How many trees does he plant?

Challenge:

- Yesterday Tara had £10.67 Today she spent £1.30. Her mum then gave her another 60p. How much does she have now?
- George goes to the shop 46 times each month. He buys 7 sweets each time he goes. How many sweets does George buy in 2 months?
- Peter has 4 horses. Each one eats 13 pounds of oats a day. How many pounds of oats does he need to feed his horses for 3 days?

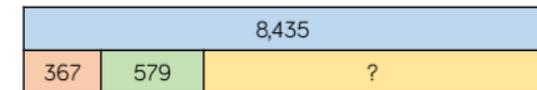
Yesterday we solved 1 step word problems, using bar models. Today we are carrying on with bar models but looking at two step problems. Two step word problems mean you need to carry out two calculations to solve the problem.

Have a go at solving the problems below, using bar models and column addition and subtraction.

1)

A shop has 8,435 magazines. 367 are sold in the morning and 579 are sold in the afternoon.

How many magazines are left?



There are ___ magazines left.

2)

Amir has £1,000



He buys a scooter for £345 and a skateboard for £110

How much money does he have left?

3) There are 2034 children and adults in a school. There are 978 boys and 865 girls. How many adults are there?

4) Gemma and Jane both have 1200 marbles. Gemma gives 709 away. Jane loses 678. How many more does Jane have than Gemma?

$$\begin{array}{r} \square 6 \square \\ - 3 \square 1 \\ \hline 4 0 1 \end{array}$$

$$\begin{array}{r} 4 3 \square \\ - \square 3 4 \\ \hline 3 \square 1 \end{array}$$

$$\begin{array}{r} 7 \square \square \\ - 3 5 1 \\ \hline \square 4 0 \end{array}$$

Wednesday

LI To solve addition and subtraction word problems

Starter: The following words either mean add or subtract. Decide which is which and complete the table, one has been done for you.
Total, subtract, less than, more than, takeaway, altogether, minus, plus, increase, decrease.

Addition	Subtraction
Total	

Task:

- 1) Read the questions carefully.
- 2) Look for the key vocabulary and use your table to help decide if it is addition or subtraction problem.
- 3) Write out the calculation
- 4) Solve and write the answer
- 5) Check using the inverse.

LI : To solve money problems

Spend 15 minutes practising your times tables

Sometimes when we are adding money it helps to add the £ and then pence separately eg
 $\pounds 2.40 + \pounds 1.50$
 $\pounds 2 + \pounds 1 = \pounds 3$
 $40p + 50p = 90p$
 $\pounds 3 + 90p = \pounds 3.90$
 Can you solve these words problems?

burger	£1.30
cheeseburger	£1.50
chips	70p
pizza slice	£1.20
coke	60p

1. How much for 1 cheeseburger and one pizza slice?
2. How much for 4 burgers?

LI: Money

Today we are going to solve some problems involving money. You might need to add or subtract the amounts, so read the question carefully!

1. Alan spent £2.60 at one shop and £3.70 at another. How much did he spend altogether?
2. How much change do I get from £5 if I spend £1.80?
3. How much change do I get from £5 if I spend £3.65?
4. Jill spent £4.35 at one shop and £6.90 at another. How much did she spend altogether?
5. John bought a toaster for £17.45 and sold it for £24. How much profit did he make?
6. Find the profit on a book that cost £8.50 and was then sold for £14?
7. Find the profit on an item that was sold for £32.40 that had cost £23.60.

A) In one month, 382 adults and 65 children stayed in a hotel. How many is that altogether?

B) A car park has room for 275 cars, 123 are taken. How many are left?

C) What is the sum of £1.50 and 34p?

D) The temperature in summer in Greece is 34 Degrees Celsius, in winter it decreases by 26 Degrees. What is the temperature in winter?

E) Jack went on holiday his flight cost £120 and his hotel cost £125 more than his flight. What was the cost of his hotel?

Challenge:

Teddy is checking Dora's work but doesn't do an inverse calculation.



These calculations can't be right.

$$\begin{array}{l} 24 + 6 = 84 \\ 25 - 23 = 12 \\ 18 - 3 = 21 \end{array}$$

How might he know?

What errors have been made in each calculation?

3. How much will a pizza, chips and a coke cost?
4. How many burgers can you buy for £5?
5. How much if I bought one of each item on the menu?
6. How much more is a cheeseburger than a regular burger?
7. Which two items can I buy for exactly £2?
8. How much for 1 cheeseburger, 1 portion of chips and a coke?

Challenge:

Work out how much it would cost a family of four to have a cheeseburger, chips and a coke each

8. A stereo costs £24.95 and a further £2.40 delivery charge. Find the total cost.

Challenge Questions

Pizzas are sold by a Pizzeria for the following prices:



1.

Four children buy one large pizza and one medium pizza to share. What is the total cost? How much does each child pay?

2. Hamed has £15 to buy pizzas for his friends. What different combinations of pizza could he buy?

3. Eight children buy one large, one medium and three small pizzas. What is the total cost? How much do they each pay?

5. The pizzeria has a special offer. Buy one large pizza, or two medium pizzas, and get a small pizza free. If you buy two large pizzas and two medium pizzas for a party, how many small pizzas will you get? How much money would you save?

Thursday

LI: To solve two step problems

Starter:

LI: Analogue and Digital Time

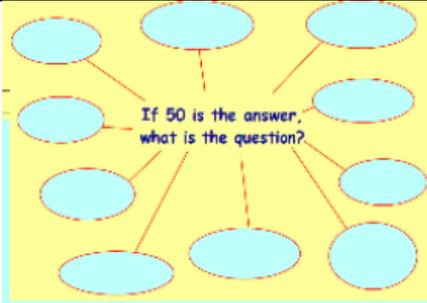
Look at these numbers they all have something to do with time, weeks, months, years etc. Write a sentence for each number

24, 365, 31, 7, 366, 60, 28, 29, 14

LI: Analogue and Digital Time

A) Can you write the times shown on the clocks below as digital times, to the nearest minute?

B) Can you write them as digital 24-hour times?



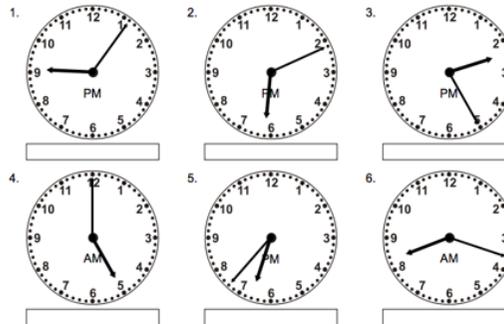
Well done you have been working hard on your addition and subtraction word problems. The ones you have done so far have only been one-step problems meaning you only had to do one calculation to solve it. Today we are going to look at two-step problems. With these you may have to do an addition calculation followed by a subtraction calculation or vice-versa. Watch this clip to help you understand:

<https://www.youtube.com/watch?v=BwkSHP2isNc>

Task: Complete the questions.

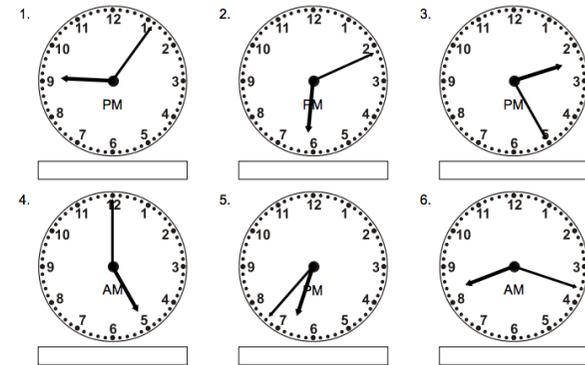
Can you write these clock times in words and in digital format?

Eg 13 minutes to 5 and 4:47



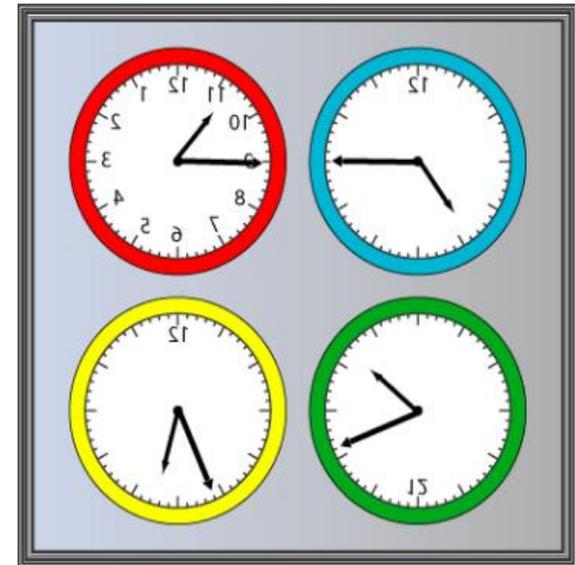
Challenge

Can you write each of these clocks in 24 format?

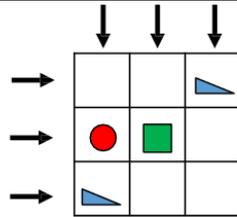


Challenge

These clocks have been reflected in a mirror. Can you work out what time they say?



	<p>1. John buys 12 pencils one week and 7 the following week. He gives 3 pencils to his friend. How many pencils does he have left?</p>  <p>2. Lydia has 15 marbles. She takes them to her friend's house. She loses 3 on the way and 4 in the house. How many does she have left?</p>  <p>3. Asif has a packet of biscuits. There are 12 in the packet. He gives 6 of the biscuits to some friends. He buys another packet of 12 biscuits. How many biscuits does he have now?</p>  <p>4. Amina collects 23 conkers. She gives 6 of the conkers to her brother and 8 to her sister. How many conkers does she have left?</p>  <p>5. James and Zain bring their football cards to share with their friend Thomas. James brings 14 and Zain brings 11. They give Thomas 8 cards between them. How many do James and Zain have left altogether?</p>  <p>Challenge: Mo says,</p>  <p>I know that 10 more than 72 is 82 because I only have to look at the tens digit.</p> <p>Is he correct? Explain your reasoning.</p>		
Friday	<p><u>LI: To solve two step problems</u></p> <p><u>Starter:</u></p>	<p><u>LI: to solve number problems</u></p> <p>It will help you today to have some numbers cards from 1 to 9.</p> <p>Can you find different solutions to the puzzle?</p>	<p><u>LI: To solve mixed addition and subtraction problems</u></p> <p>To finish the week, have a go at solving the problems below. Remember to use all the skills we have revised this week!</p> <p>1)</p>

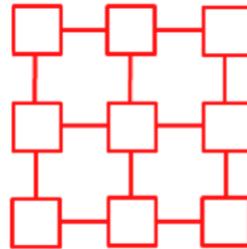


Squares are worth 10
 Triangles are worth 20
 Circles are worth 30

Can you complete the grid above so that all horizontal and vertical lines equal 60?

Task: Continuing from yesterday we are looking at two-step problems again today. Complete the rest of the questions. If you need to watch the clip again to help you re-cap how to solve them, then you can.

Place the numbers from 1 to 9 in the squares below so that the difference between joined squares is odd. (You must use each of the numbers once.)



Can you find some other ways to do this? Explain how you do this.

Can you put the numbers in the squares so that the difference between joined squares is even?

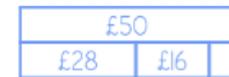
Which picture?

Draw lines to match the question to the correct bar model

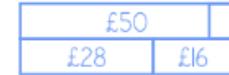


Ava buys a t-shirt and a pair of jeans.

How much change does she get from £50?

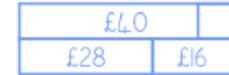


OR

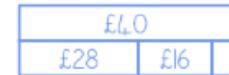


Jen has £40. She wants to buy a t-shirt and a pair of jeans.

How much more money does she need?



OR



2)

Fill the gaps

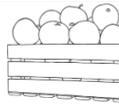
Fill in each of the blank boxes.

MENU	
Sandwich:	£2.40
Drink:	75p
Fruit:	40p

Question	Bar model	Answer
Sam buys a drink and a sandwich. He gets 35p change. How much did he pay?		
Dan has £3.50. He buys a sandwich and a drink. Does he have enough money to buy fruit?		No

Write a question here that matches the bar model picture

6. A greengrocer has a box of apples.
In the morning he sells 17 apples.
In the afternoon he sells 6 apples.
At the end of the day there are 11 apples left in the box.



How many apples were there at the start of the day?

7. In a school kitchen, the cook has 20 pie trays.
She makes meat pies and vegetarian pies.
The cook uses 8 trays for the meat pies and 7 for the vegetarian pies.



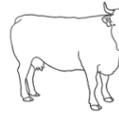
How many trays are not used?

8. A teacher collects a bag of 28 balls for a PE lesson.
There are 3 colours of ball.
There are 13 blue balls and 8 green balls.



How many red balls are there?

9. A farmer has 26 cows, which he keeps in 3 fields.
After counting 12 in the first field and 5 in the second,
how many cows would he expect to find in the third?



10. A photographer takes 34 photographs in a day.
She takes 13 in the morning and 12 in the afternoon.
She takes the rest of the photographs in the evening.



How many photographs does she take in the evening?

Challenge:

Here are Class 2's crayons.



They are given a new box of 10 each day for a week.

How many crayons do they have at the end of the week?