Add and subtract near multiples of 10, 100, 1000 **Practice Sheet Hot**

Investigation

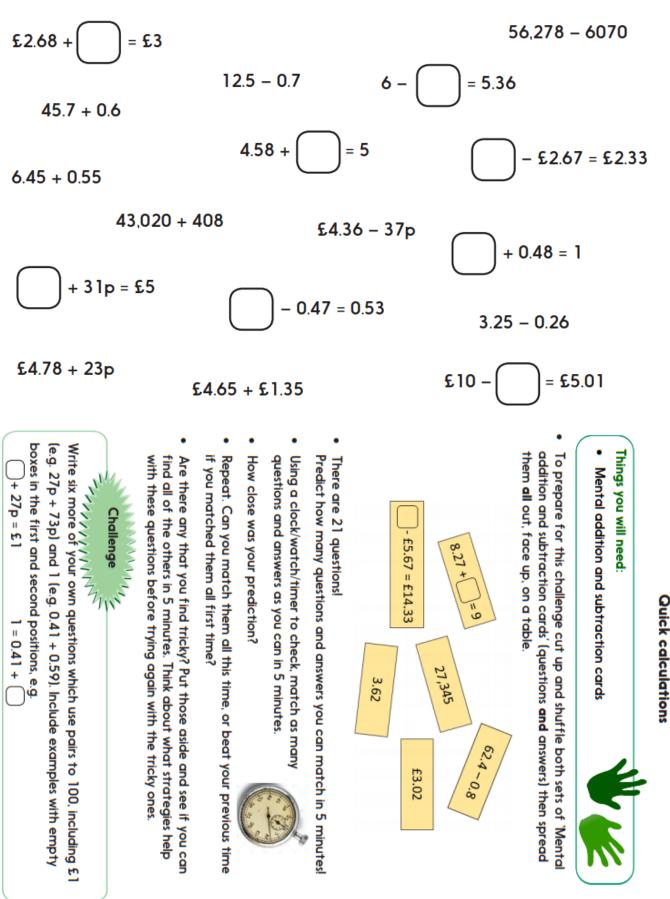
4635 + 1995Start with 5424,378 + 398• Add near multiples to this number, th 24,378 + 3997• Cut up and spread out Set 1 of the cards.34,561 + 2997• Choose an addition card and decide what multiple of 10, 100 or 1000 it would be useful to add to 5468.	 Add and subtract near multiples: Set 1 and Set 2 Start with 5468 Add near multiples to this number, then subtract near multiples from it. Cut up and spread out Set 1 of the 'Add and subtract near multiples 'cards. Choose an addition card and decide what multiple of 10, 100 or 1000 it what multiple of 10, 100 or 1000 it what multiple of 10, 100 or 5468. e.g. Choose '+ 305 and + 299' add 300. S468 + 300 = 5768
	to this number, then subtract i l out Set 1 of the 'Add and sub
	0 it
• Now calculate 546 (subtract 1 from 5)	Now calculate 5468 + 305 (add 5 more to 5768) and 5468 + 299 (subtract 1 from 5768). <i>You can draw a number line to help: no adding</i>
in columns! • Repeat with three c 5468.	<i>in columns!</i> Repeat with three different addition cards, each time starting with 5468.
32,538 + 390 • Can you predict what	hat the <i>difference</i> will be between your two answers?
 Repeat for subtractions. 	ctions. e.g. Choose '– 1005 and – 995'. Subtract 1000: 5468 – 1000 = 4468

Repeat for 3 more subtraction cards, each time starting with 5468.

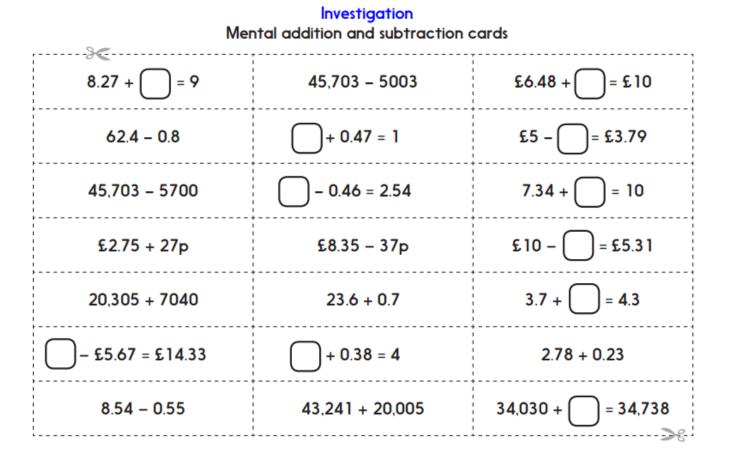
- multiples' cards. Start with 23,456 and use Set 2 of the 'Add and subtract near Time Challenge NUNAT II.

Investigation

Try and work these out mentally. Also remember to use the inverse method to help you solve the problem.



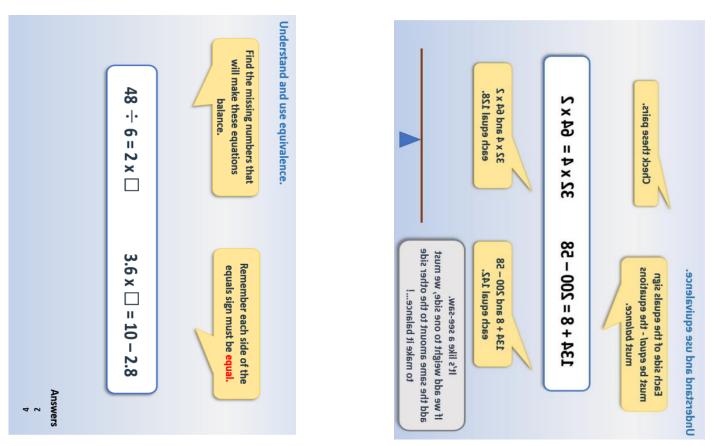
Card for your investigation. Match the answers to the questions. Maybe play with a partner.



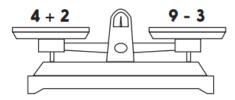
Investigation Mental addition and subtraction cards

2.66	3.62	24.3
0.6	0.73	0.53
£7.98	27,345	7.99
40,700	£20	£3.52
63,246	40,003	708
61.6	3	£1.21
£3.02	£4.69	3.01

Explanation sheet



A Bit Stuck? Balance



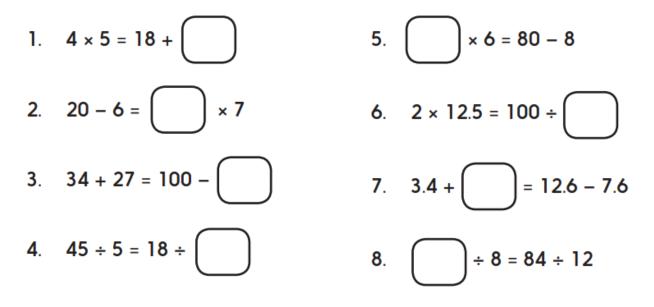
What is the missing number that will make each of these balance?

1. 7 + 3 = 6 +2. 3 + 17 = + 113. + 40 = 50 + 304. 91 + = 30 + 70

5.
$$16 - 7 = + 5$$

6. $5 \times 4 = 2 \times$
7. $12 \div 2 = -15$
8. $+ 15 = 6 \times 5$
SL 9 LZ 2 OL 9 P S
6 P OP S 6 Z P L SJAMSUY

Remember that both sides need to balance = the same amount



Challenge

Investigate the pairs of numbers you could put into these equations to make the left and right hand sides equivalent. Find at least 3 different solutions for each.

$$30 \text{ x} = \bigcirc +20 \qquad \bigcirc -5 = \bigcirc \div 2$$

2* 3*

Check your understanding Questions

How many times must I add 7 to 7,728 get to 7,777?

Subtract 205 from each of...

- 12,321
- 45,254
- 20,062

What will the ones digit of your answer be if you carry out the following sequence?

- 1. Start with 30,460.
- 2. Add 9999
- 3. Subtract 999
- 4. Add 99
- 5. Subtract 9
- 6. What's your final number?

What numbers must be subtracted from 21,234 to leave:

- 9999
- 19,235
- 21,035

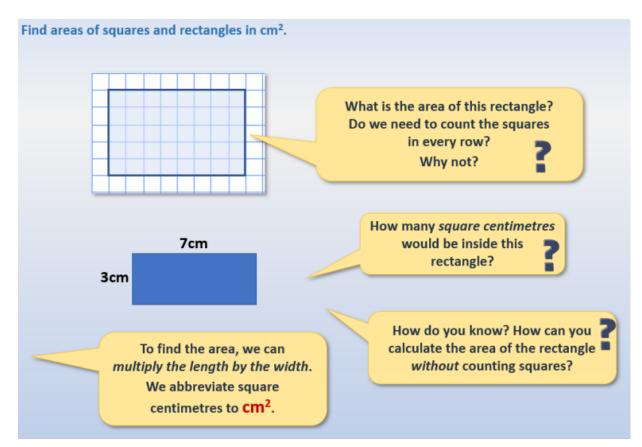
Complete each sentence: $\pm 4.36 + = \pm 5$ $\pm 6.72 + = \pm 10$ 4.83 + = 10

Write the value of each shape.

 $701 - \bigstar = 3 \times 152$ (6.25 × 6) + $\bigstar = 120 \div 3$

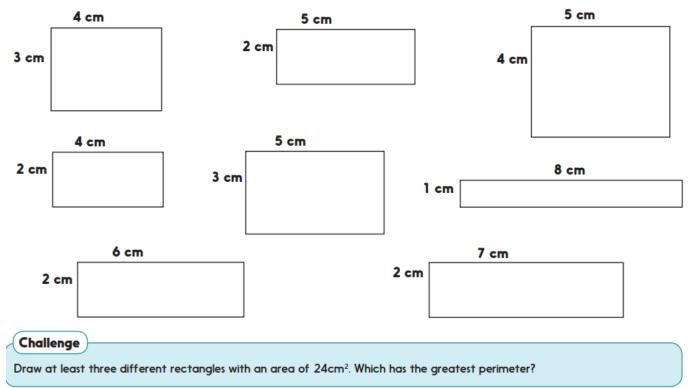
 $100 - 55.68 = \frac{1}{2} \text{ of } \Delta$

Here is an equation with two empty spaces. What ONE number will make the equation balance? $(34 \times 5) - \square = 4 \times \square \times 4$

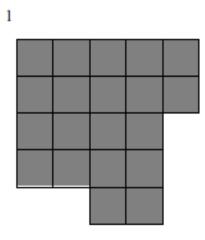


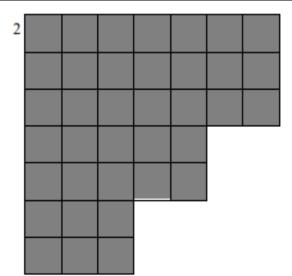
Finding areas of rectangles

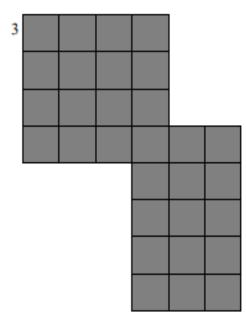
Work out the areas of all these rectangles. Write the answer inside each rectangle.



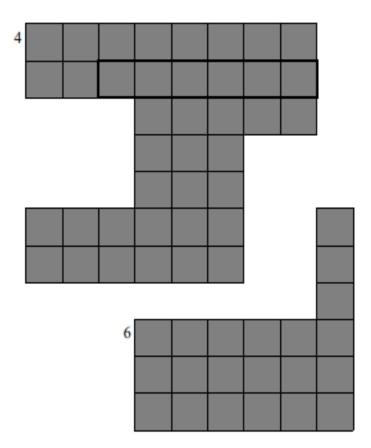
Calculate the area of these 2D shapes







5



If you are finished: Which shape has the biggest perimeter?

Which shape has the smallest perimeter?

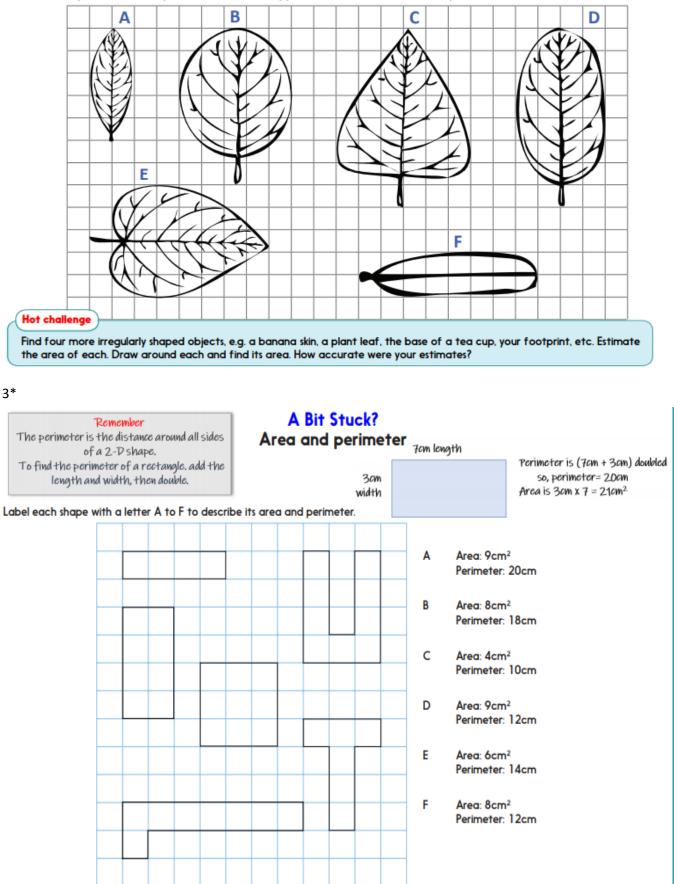


Practice Sheet for All

Estimating area

Which leaf shape do you think has the greatest area?

Write the letters of the leaves in order from which you think has the least area to the greatest areas. Now count squares and half squares to find out the approximate area of each leaf shape.



3*

Try your best and see how many problems you can solve.

Check your understanding Questions

Sam has two photos. One has an area of 49cm². The other has an area of 56cm². A side length of one photo is equal to one of the sides of the other. What are the side lengths of the two photos?

The area of a rectangle is 45 cm². If one side is 4cm longer than the other, what is the perimeter of the rectangle?



Mary has an oval table. She wants to find its area as accurately as she can. Write 2 or 3 sentences explaining how she might do this.

Fold here to hide answers

Check your understanding Answers

Sam has two photos. One has an area of 49cm². The other has an area of 56cm². A side length of one photo is equal to one of the sides of the other. What are the side lengths of the two photos? 7cm by 7cm and 7cm by 8cm

The area of a rectangle is 45cm². If one side is 4cm longer than the other, what is the perimeter of the rectangle? 28cm.

The sides must be 9cm and 5cm which give an area of 45 cm². The perimeter is 28cm (9cm + 5cm + 9cm + 5cm).

Mary has an oval table. She wants to find its area as accurately as she can. Write 2 or 3 sentences explaining how she might do this.



One way would be to use centimetre squared paper – cut out pieces that are 10 by 10cm, i.e. 100cm² (or larger pieces, but keep them all the same); see how many fit across the main part of the surface. Then cut out pieces to cover the curved parts and count as accurately as possible.

Summer week 2 Friday 20th June maths

Try your best and see how many problems you can solve - use this sheet to do you working out.

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Summer week 2 Wednesday maths

Check your understanding

Answers

How many times must I add 7 to 7,728 get to 7,777? 7 times.

Subtract 205 from each of...

- 12,321 12,116
- 45,254 45,049
- 20,062 19,857

If done mentally, check children are jotting down part-answers, e.g. 12,321, 12,121

(subtracting 200), 12,116 (subtracting 5 more). Encourage children to add 205 back to their

answers to check.

What will the ones digit of your answer be if you carry out the following sequence? 0, same as the

starting number since nine 1s are twice added and twice subtracted.

- 1. Start with 30,460.
- 2. Add 9999 40,459
- 3. Subtract 999 39,460
- 4. Add 99 39,559
- 5. Subtract 9 39,550
- 6. What's your final number? 39,550

Check children make the right adjustments, e.g. when adding 9999, add 10,000 then subtract

1; when subtracting 999, subtract 1000 then add 1.

What numbers must be subtracted from 21,234 to leave:

• 9999 11,235

- 19,235 1,999
- 21,035 199

Complete each sentence:

 $\pounds 4.36 + [64p \text{ or } \pounds 0.64] = \pounds 5 \pounds 6.72 + [\pounds 3.28] = \pounds 10$

4.83 + [5.17] = 10

Write the value of each shape.

701 – 245 = 3 x 152 (6.25 x 6) + 2.5 = 120 ÷ 3

100 - 55.68 = ½ of 88.64

Here is an equation with two empty spaces.

What ONE number will make the equation balance?

 $(34 \times 5) - 10 = 4 \times 10 \times 4$

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Estimating area

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Leaf A is approximately 7 cm2

Leaf B is approximately 22 cm2

Leaf C is approximately 26 cm2

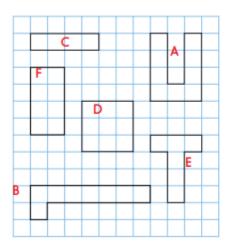
Leaf D is approximately 23 cm2

Leaf E is approximately 26 cm2

Leaf F is approximately 12 cm2

Answer

Area and perimeter



Α	Area: 9cm² Perimeter: 20cm
В	Area: 8cm² Perimeter: 18cm

- C Area: 4cm² Perimeter: 10cm
- D Area: 9cm² Perimeter: 12cm
- E Area: 6cm² Perimeter: 14cm
- F Area: 8cm² Perimeter: 12cm