

Name: _____

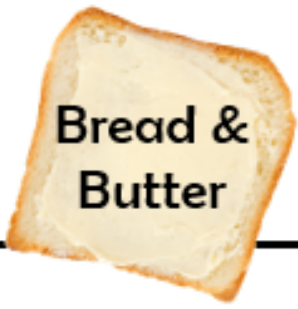
Class: _____

Teacher: _____

Year 8

Term 2

Numeracy Homework Booklet



Bread &
Butter



Week 1



1) $2000 - 1234$

2) Add 7.3 to
 92.05 .

3) $9.6 \div 6$

4) Decrease 145 by
40%.

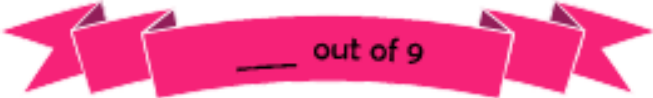
5) $\frac{1}{8}$ m = _____ cm

6) Round off
142,736 to two
significant figures.

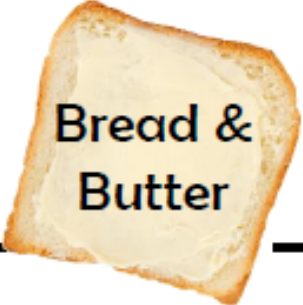
7) What is the
mean of 8, 4, 0, 3,
5?

8) 65×97

9) What is the
reciprocal of 8?



_____ out of 9



Bread &
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Week 2

1) Increase 70 by 10%.

2) Write down 42% as a decimal.

3) Round off 25.2927 to two decimal places.

4) 100 g of cherries cost £1.30. What is the cost of 2 kg of cherries?

5) 14^2

6) $8 - 2.16$

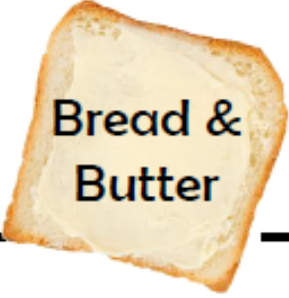
7) Divide £120 between Arwyn and Bertie according to the ratio 19:5.

8) Calculate 2.5% of £150.

9) $\frac{3}{4} - \frac{2}{3}$



___ out of 9



Bread &
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Week 3



1) Add 81.2 to 9.06.

2) How many quarters are in $3\frac{3}{4}$?

3) Calculate 7 cubed.

4) Increase 2 m by 15%. Give your answer in cm.

5) Write down, in its simplest form, 60% as a fraction.

6) What is the median of 9, 14, 0, 5, 6?

7) 603×75

8) The reciprocal of $\frac{1}{14}$ is

9) Round off 0.0254 to one significant figure.



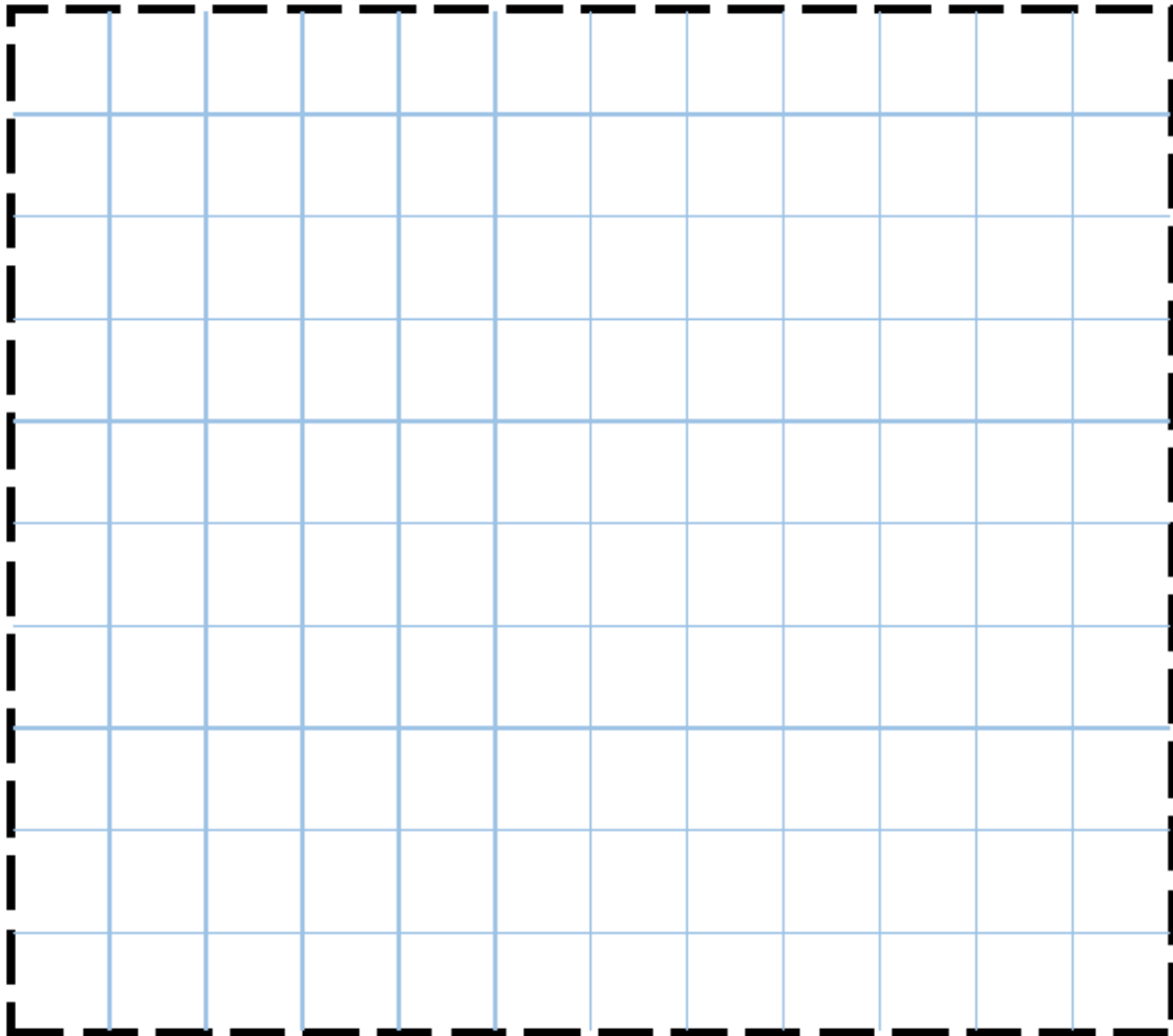
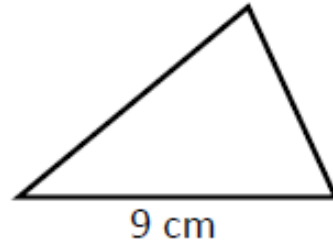
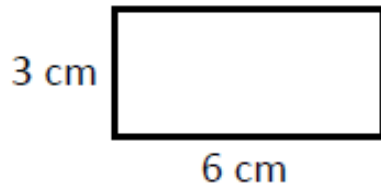
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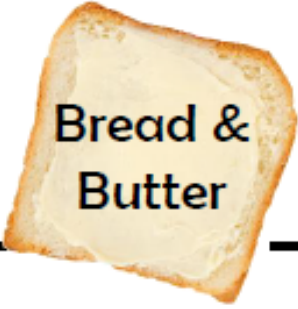
Week 3



Reasoning

The following rectangle and triangle have the same area. What is the height of the triangle?





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Week 4

1) _____ + 8.2 = 20

2) $1000 - \frac{\quad}{827} =$

3) Calculate 45% of £90.

4) 0.4×0.2

5) Round off 9.258 to one decimal place.

6) 83×9

7) What is $\frac{1}{2}$ of $\frac{1}{4}$?

8) Simplify the ratio 15:20.

9) $4\frac{1}{4}$ kg = _____ g



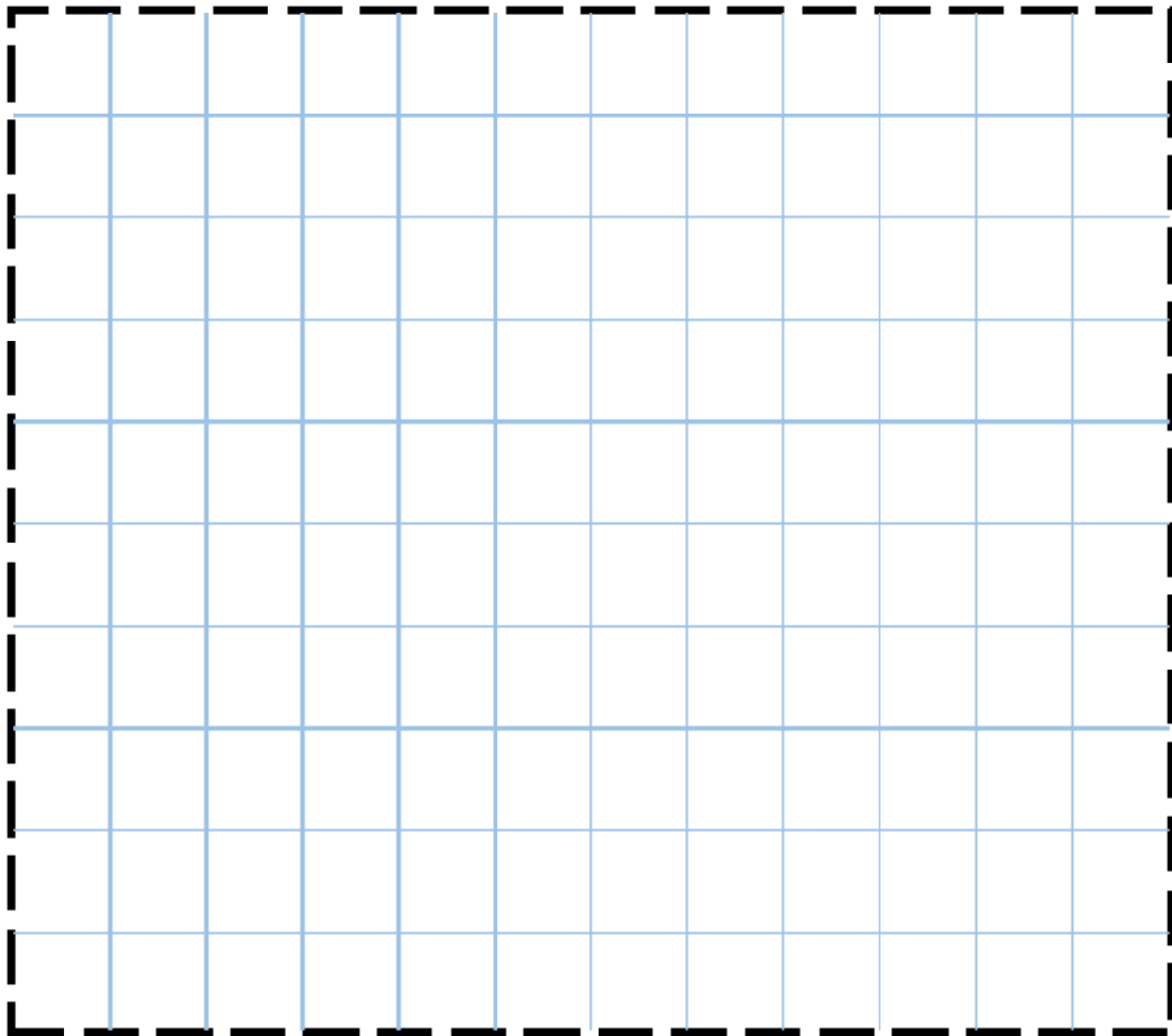
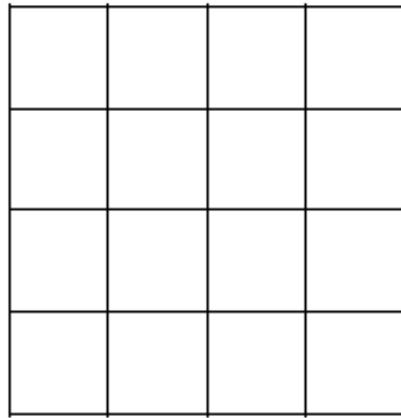
_____ out of 9

Week 4

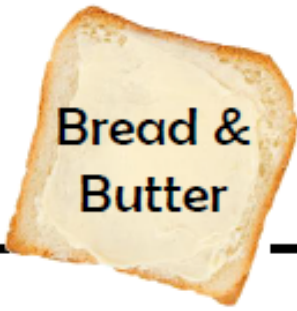


Reasoning

How many squares (of any size) can be seen in this picture?



— out of 3



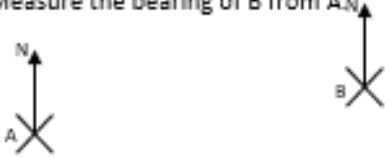
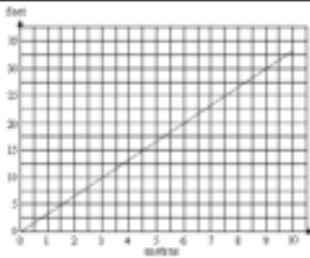
Bread &
Butter

Week 5

1) $87 + 2918 + 382$	2) Subtract 0.24 from 2.	3) Calculate $\frac{5}{8}$ of £72.
4) 7×0.5	5) Round off 89,002 to one significant figure.	6) Decrease 60 by 30%.
7) $\frac{1}{4}$ of Jim's number is 8. What is $\frac{1}{8}$ of Jim's number?	8) 723×64	9) Write down 0.1% as a decimal.

— out of 9

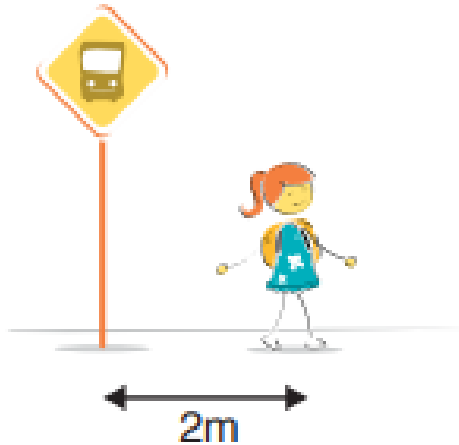
Week 6

1: Double 63	11: In the space below, draw an angle of 30°
2: Calculate $-12 - 11$	12: Two angles are on a straight line. One of the angles is 43° . Work out the size of the other angle.
3: Calculate 3^3	13: A scale drawing has a scale of 1cm:2km. Work out the <u>real life</u> distance of a length of 5 cm on the map.
4: Calculate $\sqrt{25}$	14: Measure the bearing of B from A. <div style="text-align: center;">  </div>
5: Write 24 as a product of primes	15: Sam has 3 cards and he buys a more. Write an expression for the number of cards Sam has.
6: <div style="display: flex; align-items: center; gap: 10px;">  <div style="font-size: small;">Use this graph to convert 6 metres into feet.</div> </div>	16: Simplify $a + a + a + a + b + b + b$
7: A train journey lasting an hour and a half starts at 4:15 pm. What time does it finish?	17: Find the value of $3a + b$ when $a = 5$ and $b = 2$
8: A car travels for 3 hours at an average speed of 45mph. How far does it travel?	18: Multiply out $3(x + 4)$
9: Calculate 50% of 96	19: A bag contains 3 black counters, 4 red counters and 5 blue counters. A counter is taken at random. Write down the probability that it is a black counter.
10: Convert 0.37 to a percentage	20: 6×7
Mark:	Effort:

Week 6

This maths question was in a newspaper.

Amy is **2m** from the bus stop.



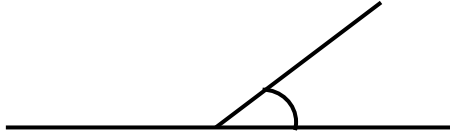
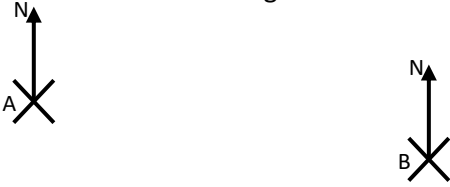
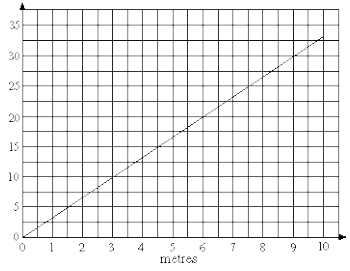
Ben is **6m** from the bus stop.

What is the distance between them?

The newspaper claimed the answer was 4m.

Show why there are many more possible answers.

Week 7

1: Multiply 37 by 100	11: Measure the angle below 
2: Calculate $-5 + 13$	12: Three angles lie around a point. One of the angles is 68° , and another is 104° , work out the size of the third angle.
3: Calculate 9^2	13: A map has a scale of 1cm:500m. Work out the real life distance of a length of 3 cm on the map.
4: Calculate $\sqrt{100}$	14: Measure the bearing of B from A. 
5: Write 27 as a product of primes	15: Beth has b marbles. Trevor has 5 less than Beth. Write an expression for the number of marbles that Trevor has.
6:  Use this graph to convert 5 feet into metres.	16: Simplify $3 \times c \times d$
7: A car trip starts at 7:10 am and finishes at 7:45 am. How long is the trip?	17: Find the value of $c + 5d$ when $c = 4$ and $d = 6$
8: A train travels 150 miles in 2 hours. What is the average speed of the train in mph?	18: Multiply out $5(x - 2)$
9: Calculate 25% of 84	19: A bag contains 3 black counters, 4 red counters and 5 blue counters. A counter is taken at random Write down the probability that it is a red counter.
10: Convert 87% to a decimal	20: 8×9
Mark:	Effort:

Week 7

The picture shows the world's biggest lolly.

It weighs **3175 kilograms**.



It takes me five minutes
to eat a small lolly like this.


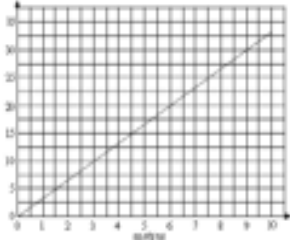
It weighs **20 grams**.

If I never stopped eating,
how many days would
it take me to eat this
HUGE lolly?



Work out how many days it would take.

Week 8

<p>1: Fill in the box with the missing number.</p> $27 + \boxed{} = 72$	<p>11: In the space below, draw an angle of 75°</p>
<p>2: Calculate $-4 + -16$</p>	<p>12: Two of the angles in a triangle are 37° and 81°. Work out the third angle.</p>
<p>3: Calculate 2^7</p>	<p>13: A map has a scale of 1cm:200m. Find the length on a map that represents 1km in real life.</p>
<p>4: Calculate $\sqrt{36}$</p>	<p>14: Measure the bearing of B from A.</p> <div style="text-align: center;">  </div>
<p>5: Write 32 as a product of primes</p>	<p>15: Sharif has a rope that is c metres long. Peter has a rope that is twice as long. Write an expression for the length of Peter's rope.</p>
<p>6:  Use this graph to convert 8 metres into feet.</p>	<p>16: Simplify $5e + 2f + 4e + 9f$</p>
<p>7: A flight lasting 3 hours and 45 minutes lands at 7:50 pm. What time did the flight take off?</p>	<p>17: Find the value of $3e - 2f$ when $e = 6$ and $f = 7$</p>
<p>8: A cyclist travels 20 miles at an average speed of 5 mph. How long does the cyclist take?</p>	<p>18: Multiply $8(x + 5)$</p>
<p>9: Calculate 75% of 24</p>	<p>19: A bag contains 3 black counters, 4 red counters and 5 blue counters. A counter is taken at random. Write down the probability that it is a blue counter.</p>
<p>10: Convert $\frac{1}{10}$ to a decimal</p>	<p>20: 12×11</p>
<p>Mark:</p>	<p>Effort:</p>

Week 8

James has to be at work by 9:00 a.m. and it takes him 15 minutes to get dressed, 20 minutes to eat and 35 minutes to walk to work.

What time should he get up?

Three ducks and two ducklings weigh 32 kg. Four ducks and three ducklings weigh 44kg. All ducks weigh the same and all ducklings weigh the same. What is the weight of two ducks and one duckling?