

Numeracy

Homework

Pack

Year 8



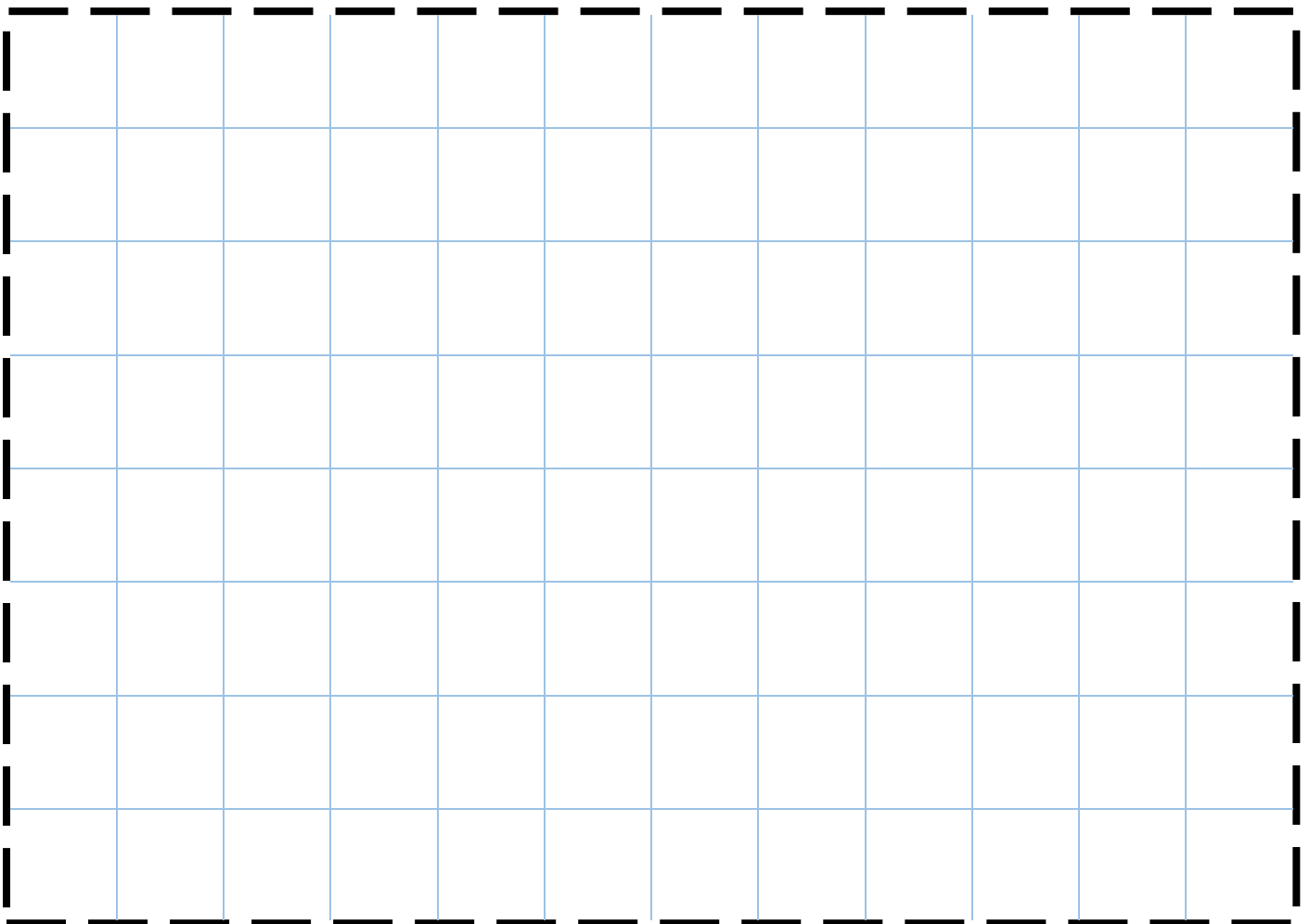


This workbook will help you prepare for the national numeracy tests:

- The procedural test without a calculator;
- The reasoning test with a calculator.

Each week there will be a set of “bread & butter” questions practicing procedural skills, and a “reasoning” question practicing reasoning skills.

Space for rough work:



Name:

Registration
Class:

Room:

Mathematics Teacher:

Half Term 1: Evaluation



Half Term 2: Evaluation





Bread & Butter



Week 1

1) Add 4.62 to 14.7.

2) Subtract 4.62 from 14.7.

3) What is 75% of £180?

4) How many minutes are there between 14:43 and 16:29?

5) $4.3 \text{ m} = \underline{\quad} \text{ cm}$

6) 0.4×9

7) Calculate $\frac{2}{7}$ of £35.

8) 284×67

9) What is 5 cubed?



 out of 9

**Bread &
Butter****Week 2**

1) 12×9

2) $4.2 - 2.32$

3) $840 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

4) Round off 8359
to the nearest
hundred.5) Write down 0.6
as a percentage.6) Calculate
 $\sqrt{3^2 + 4^2}$.7) Increase 60 by
20%.

8) $2 \text{ m}^2 = \underline{\hspace{2cm}} \text{ cm}^2$

9) Round off 7,628
to one significant
figure.



Bread & Butter



Week 3

1) $0.25 + 0.26 + 0.27$

2) 9^2

3) How many halves are in $6\frac{1}{2}$?

4) Round off 26.546 to two decimal places.

5) Subtract 0.08 from 0.1.

6) $60 \times \underline{\hspace{2cm}} = 0.6$

7) $8 \times 6 \div (4 \times 4)$

8) $\frac{2}{5} + \frac{3}{7}$

9) 17×13



_____ out of 9



Bread & Butter



Week 4

1) 17×11

2) $762 - 389$

3) $7 + 2 \times 3$

4) Decrease £90 by 10%.

5) What is the median of 9, 2, 4, 7?

6) Calculate the volume of a cube that has 4 cm sides.

7) The reciprocal of $\frac{4}{5}$ is

8) $4^3 - 4^2$

9) $552 \div 23$



_____ out of 9



Bread & Butter



Week 5

1) Add 2.76 to 29.

2) Subtract 2.76 from 29.

3) What is the mode of 8, 2, 4, 2, 9, 8?

4) $2000 - 847$

5) Write down the square root of 64.

6) $\frac{1}{5}$ minute = _____ seconds.

7) Simplify the fraction $\frac{48}{72}$.

8) $4 \times 0.3 + 6 \times 0.3$

9) What percentage of 240 is 48?



_____ out of 9



Bread & Butter



Week 6

1) $82 + 8.2 + 0.82$

2) $82 - 8.2 - 0.82$

3) What is 11 squared?

4) Round off 7,298 to one significant figure.

5) $3.6 \div 3$

6) $\frac{1}{10}$ of Awel's number is 20.
What is $\frac{1}{5}$ of Awel's number?

7) How many minutes are there between 09:45 and 14:23?

8) Divide £80 between Ann and Bob according to the ratio 3:5.

9) 0.4×0.1

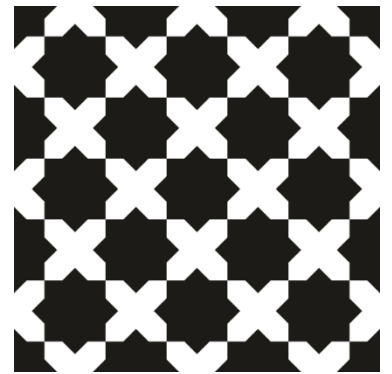


_____ out of 9



Reasoning

Consider the pattern shown on the right. Which statement is correct? (a) The perimeter of the black shape is biggest. (b) The perimeter of the white shape is biggest. (c) The two shapes have equal perimeter.







Bread & Butter



Week 7

1) _____ + 2.4 = 10

2) _____ + 298 =
1000

3) Calculate $\frac{2}{9}$ of
£108.

4) 8×0.9

5) 2^5

6) 154×23

7) $40.2 - 2.07$

8) $\frac{1}{7} + \frac{3}{4}$

9) $3\frac{1}{2}$ km = _____ cm



_____ out of 9



Bread & Butter



Week 8

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.

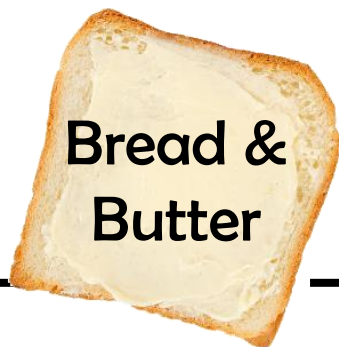
7) What is the
mean of
8, 4, 0, 3, 5?

8) 65×97

9) What is the
reciprocal of 8?



_____ out of 9



Bread & Butter

Week 9

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 & Butter



Week 10

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.

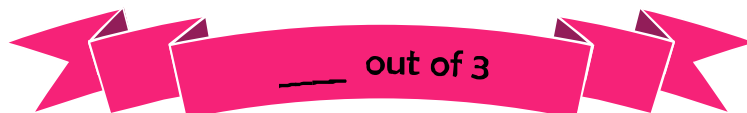
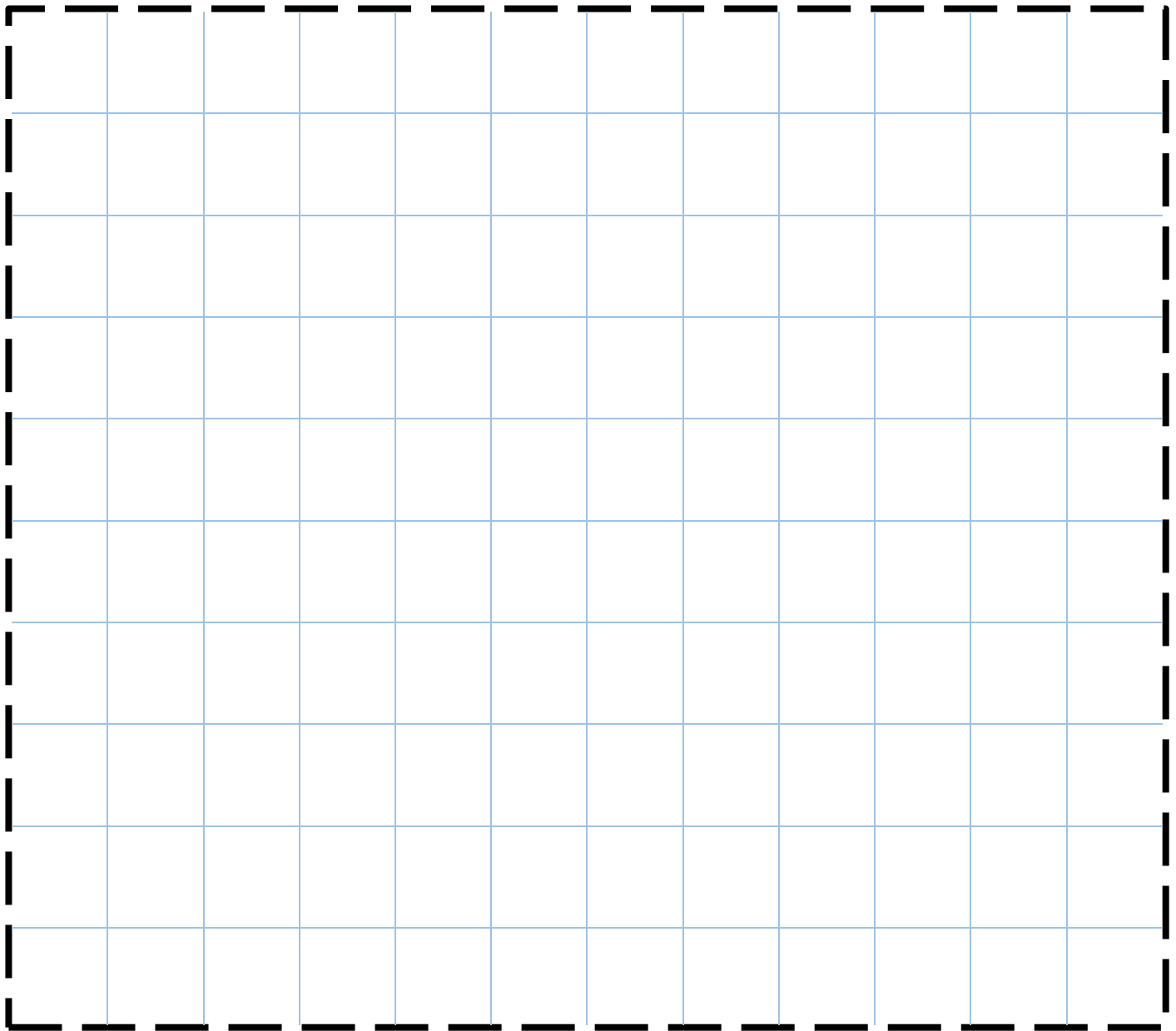
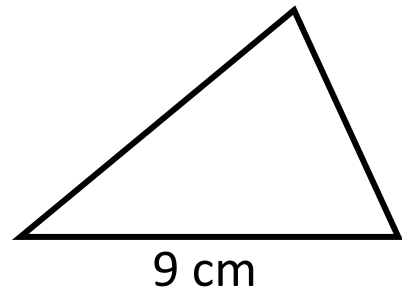
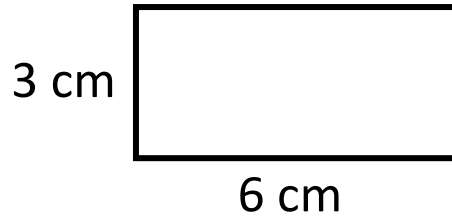


_____ out of 9



Reasoning

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





Bread & Butter



Week 11

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

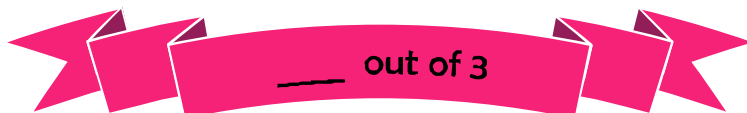
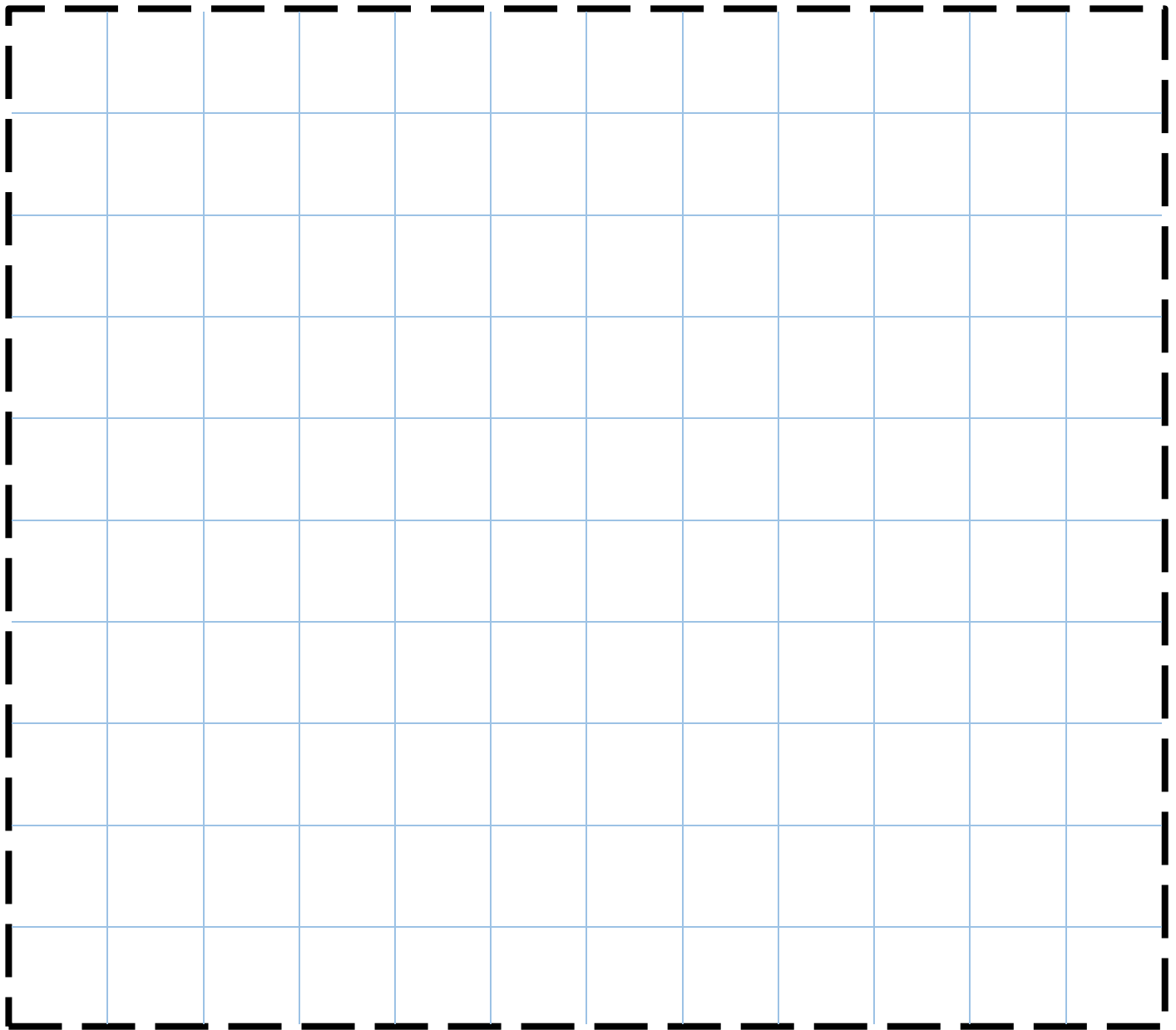
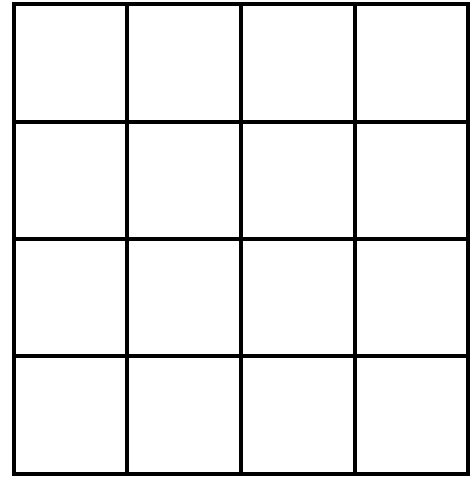


_____ out of 9



Reasoning

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





Bread & Butter



Week 12

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

Rough Work:

