



R1 Homework

These questions should be attempted WITHOUT the use of a calculator, unless it is stated that a calculator may be used.

Answer ALL questions in your homework jotter.

ALL WORKING MUST BE SHOWN.

Number your questions clearly.

Calculators may be used when you see



NAME	CLASS	TEACHER

S1 Non Calculator Weekly 1

1. Calculate:

a. $577 - 328$

b. $24 \cdot 6 + 567$

c. $52 \cdot 4 - 13 \cdot 02$

2. Simplify each expression:

a. $5a + 2a + 4a$

b. $6y - 4y$

c. $8x + 3x - 5x$

3. Calculate:

a. 18×4

b. 654×7

c. $145 \div 5$

4. If $a = 4$ and $b = 2$, find the value of:

a. $a + b$

b. $2a + 4b$

c. $ab - b$

5. Copy the list of numbers and circle the multiples of 6:

9 12 24 35 44 56 60

S1 Non Calculator Weekly 2

1. Simplify each expression:

a. $4f + 6f + 5f$

b. $2a + 6a - 3a$

c. $7t - 4t + 2t$

2. Calculate:

a. $178 - 159$

b. $28 - 19 + 78$

c. $189 \cdot 6 + 29$

3. If $x = 4$, $y = 5$ and $z = 6$, evaluate the following expressions:

a. $2x + y$

b. $x + 2y - z$

c. xy

4. Calculate:

a. 154×6

b. $288 \div 4$

c. 14×8

5. Copy the list of numbers and circle the factors of 48:

1

5

6

8

9

12

S1 Non Calculator Weekly 3

1. Calculate:

a. $274 - 166$

b. $14 \cdot 6 + 156 - 31 \cdot 8$

2. Round the following to 1 decimal place:

a. $16 \cdot 25$

b. $356 \cdot 245$

c. $6 \cdot 79$

3. Simplify the following expressions:

a. $3x + 6x - 2x$

b. $7y + 5x - 3y$

c. $9a - 3a + 4b$

4. Calculate:

a. $4 \times 18 \times 25$

b. $1 \cdot 65 \times 10$

c. $3 \cdot 05 \times 10000$

5. If $a = 6$ and $b = 3$, calculate the value of:

a. $3a + 2b$

b. ab

c. $3ab$

6. Write down all the factors of

a. 10

b. 24

c. 39

S1 Non Calculator Weekly 4

1. Calculate:

a. 17.2×100

b. 15.88×10000

c. 3.6×10

2. Simplify the following expressions:

a. $5a + 6a - 2a$

b. $7x + 2y - 3x$

c. $4p + 2r - 3p - r$

3. Calculate:

a. $14 \div 5$

b. $16.44 + 3.2$

c. 2.5×6

4. Calculate:

a. $17.2 + 2.44$

b. $15.6 - 3.8$

c. $13.2 + 2.4 - 5.5$

5. Copy the list of numbers and circle the square numbers:

3 9 12 16 24 36 56 64 88 100

S1 Non Calculator Weekly 5

1. Simplify the following expressions:

a. $3t + 2r + 3t - 2r$

b. $7a + 5b - 3a + 2b$

2. Round the following numbers to 1 decimal place:

a. 3.56

b. 21.34

c. 21.99

3. Calculate:

a. $17 \div 5$

b. $99 + 38.6 - 3.02$

c. $19 + 7 \times 4$

4. If $a = 4$, $b = 2$ and $c = 1$, find the value of:

a. $a + b - c$

b. $3a + 2c$

c. $ab - 3c + 4b$

5. Calculate:

a. 6.45×100

b. 23.5×30

c. $139.4 \div 200$

S1 Non Calculator Weekly 6

1. Calculate:

a. $137 + 243 - 24 \cdot 9$ b. $342 - 187$

2. Round to 1 decimal place:

a. $27 \cdot 42$ b. $429 \cdot 835$ c. $7 \cdot 99$

3. Simplify the following expressions:

a. $8x + 4x - 6x$ b. $12a + 3b - 8a$ c. $4a - 3a + 2b$

4. Calculate:

a. $2 \cdot 43 \times 10$ b. $3 \cdot 74 \times 1000$ c. $25 \times 54 \times 4$

5. If $a = 4$ and $b = 7$, calculate the value of:

a. $2a + 3b$ b. $5b - 3a$ c. $5ab$

6. Write down all the factors of:

a. 32 b. 36 c. 48

S1 Non Calculator Weekly 7

1. Calculate:

a. $43 \cdot 2 \times 100$

b. $24 \cdot 73 \times 1000$

c. $4 \cdot 7 \times 10$

2. Simplify the following expressions:

a. $14a + 3b - 5a$

b. $4x + 5y - 3x$

c. $5t + 4s - 3t + 6s$

3. Calculate:

a. $5 \cdot 3 \times 8$

b. $23 \cdot 46 + 8 \cdot 2$

c. $48 \div 5$

4. Round the following numbers to 1 decimal place:

a. $2 \cdot 43$

b. $53 \cdot 749$

c. $49 \cdot 99$

5. If $a = 5$, $b = 3$ and $c = 7$, calculate the value of:

a. $a + b + c$

b. $5ab - 3c$

c. abc

6. Calculate:

a. $32 \cdot 4 \times 40$

b. $3 \cdot 6 \times 400$

c. $48 \cdot 3 \div 30$

S1 Non Calculator Weekly 8

1. Round to the nearest whole number:

a. 276.38

b. 5.5

c. 16.56

2. Calculate:

a. 263×20

b. 306×300

c. 48×5000

3. Calculate:

a. $3 \times 20 + 12$

b. $7 + 3 \times 12$

c. $3 \times (5 + 7)$

4. Round to 1 decimal place:

a. 15.35

b. 28.336

c. 2.55

5. Calculate:

a. $260 \div 20$

b. $55000 \div 50$

c. $21300 \div 300$

6. Calculate, showing working clearly:

a. 234×25

b. 310×46

Problem Solving 1

Chris has to write a 3000 word essay. She estimates that she can fit 55 lines of type on each page, and about 14 words in each line.



How many sides of paper will she use?

S1 Non Calculator Weekly 9

1. Round to 2 decimal places:

a. 2.3445

b. 13.76

c. 4.398

2. Calculate:

a. $216.4 \div 20$

b. 32.4×300

c. 42.11×500

3. Copy these sequences, filling in the missing numbers:

a. 3, 8, 13, 18, __, __, __

b. 88, 77, 66, 55, __, __, __

c. 7, 11, 15, 19, __, __, __

4. Calculate, showing working clearly:

a. 82×35

b. 714×33

5. Change to cm:

a. 23cm

b. 3.4m

c. 46mm

Problem Solving 2

182 pupils and 9 teachers are going on a theatre visit. They hire 42 seater buses.

a. How many buses will they need?

b. Will there be extra seats if any more pupils decide to go?



S1 Non Calculator Weekly 10

1. Calculate:

a. $23 + 2 \times 8$

b. 170×20

c. $12 \times (8 - 5)$

2. Round to 1 decimal place:

a. 17.66

b. 45.246

c. 3.98

3. Fill in the next three numbers of the sequences:

a. 12, 15, 18, __, __, __

b. 27, 22, 17, __, __, __

c. 1, 4, 9, 16, __, __, __

4. Calculate:

a. 42×400

b. $15 \div 4$

c. 3.05×10000

5. Copy the numbers below and circle the prime numbers:

1 2 7 25 3 40 47 49

6. Write down all the factors of:

a. 12

b. 25

c. 36

Problem Solving 3

An electrician has 100 metres of wire on a drum. He uses 13.6m and 28.7m of wire in one house, and the same lengths again in another house. What length of wire will be left?



S1 Non Calculator Weekly 11

1. Calculate:

a. $8 + 3 \times 5$

b. $2030 \div 500$

c. 27.7×40

2. Simplify the following expressions:

a. $6a + 3b - 5a$

b. $12x + 3 - 4x - 3$

b. $5r + 5t - 3r - 4t$

3. Calculate:

a. $12 \div 5$
12

b. $32.6 + 2.5$

c. $4.6 \times$

4. Calculate:

a. $3 + 15 \times 4$

b. $5 \times 4 + 3$

5. Calculate:

a. 23×45

b. $\sqrt{49}$

c. 6^2

Problem Solving 4

In a test $\frac{1}{5}$ of the pupils will be given an A grade, $\frac{1}{2}$ a B grade, $\frac{1}{4}$ a C grade, and the rest a D grade.

Out of the 40 pupils, how many will get each grade?



S1 Non Calculator Weekly 12

1. Simplify the following expressions:

a. $2a + 3c - a + 5c$ b. $6x + 3y - 6x + 2y$ c. $12p + 4 - 5p$

2. Round the following numbers to 1 decimal place:

a. 3.09 b. 23.34 c. 16.99

3. Calculate:

a. $21.4 \div 5$ b. $15 + 3 \cdot 2 - 3 \cdot 02$ c. $12 + 7 \cdot 1 \times 3$

4. If $a = 5$, $b = 3$ and $c = 1$, find the value of:

a. $a + b - c$ b. $3a + 2c$ c. $ab - 3c + 4b$

5. Calculate:

a. 6.45×300 b. 23.5×60 c. $29.4 \div 200$

Problem Solving 5

Kevin counts money paid into his bank account as positive, and money he takes out as negative. How much did he have in his account after each pay-in and pay-out shown below?

+£10 +£5 -£20 -£5 +£10 -£5 +£30

S1 Non Calculator Weekly 13

1. Round to 1 decimal place:

a. 276.38 b. 5.55 c. 16.596

2. Calculate:

a. $15 - 3 \times 5$ b. $2.45 + 15.55$ c. 16.596

3. Express the following fractions in their simplest form:

a. $\frac{25}{40}$ b. $\frac{50}{720}$ c. $\frac{12}{16}$

4. Calculate, giving your answer in the simplest form:

a. $\frac{2}{5} + \frac{1}{5}$ b. $\frac{3}{4} + \frac{1}{2}$ c. $2\frac{5}{6} - \frac{1}{6}$

5. Simplify:

a. $2x + 3y - 2x - 3y$ b. $5a + 2a - 3b$ c. $4 + 2c - 3$

6. Write down:

a. $\sqrt{25}$ b. 7^2 c. 2^3

Problem Solving 6

200 pupils and 5 teachers are going on a school trip.
They hire 52 seater buses.



- How many buses will they need?
- How many empty seats will there be?

S1 Non Calculator Weekly 14

1. Calculate:

a. $\frac{2}{5} + \frac{3}{5}$ b. $\frac{5}{8} - \frac{1}{2}$ c. $\frac{1}{3} + \frac{4}{5}$

2. Calculate:

a. 216.4×20 b. 27.36×1000 c. $4.772 \div 10$

3. Calculate:

a. 23×42 b. 145×43

4. If $a = 4$ and $b = 6$, find the value of:

a. $2a + 3b$ b. ab c. $2(a + 3b)$

5. Calculate:

a. $\frac{1}{4}$ of 24 b. $\frac{2}{5}$ of 55 c. $\frac{2}{7}$ of 21

Problem Solving 7

Seaview restaurant is spending £1800 on new tables and chairs.

The owner buys 20 tables costing £60 each.

How many chairs can he buy at £8 each?

S1 Non Calculator Weekly 15

1. Calculate:

a. $16 - 2 \times 5$ b. 150×200 c. $2.35 \div 50$

2. Round to the nearest whole number:

a. 21.88 b. 12.35 c. 157.9

3. Simplify:

a. $2a + 3b - a$ b. $5x + 3x - 2y$

4. Find:

a. $\frac{2}{5} + \frac{1}{2}$ b. $\frac{5}{8} - \frac{1}{4}$ c. $\frac{2}{3}$ of £45

5. Copy the numbers below and circle the factors of 12:

1 2 3 4 5 7 9 10 12 24

6. Simplify:

a. $\frac{21}{30}$ b. $\frac{30}{40}$ c. $\frac{45}{70}$

Problem Solving 8

My petrol tank was exactly $\frac{1}{4}$ full. It took 24 litres of petrol to fill the tank up. How many litres does my tank hold altogether?

S1 Non Calculator Weekly 16

1. Simplify the following expressions:

a. $5x - 3y + 2x$ b. $2 + 5a - 2$ c. $15w + 2d - 4w - d$

2. Calculate, giving your answer in its simplest form:

a. $\frac{2}{5} \times \frac{7}{8}$ b. $\frac{5}{6} + \frac{2}{3}$ c. $\frac{5}{8} - \frac{1}{2}$

3. Calculate:

a. $\frac{3}{7}$ of 21g b. $\frac{5}{8}$ of 64g c. $\frac{2}{5}$ of 550m

4. Round to 2 decimal places:

a. 2.345 b. 4.988 c. 8.999

5. Calculate:

a. 3.4×100 b. $12.66 \div 10$ c. 2.1×20

Problem Solving 9

Lee gives his Dad a puzzle.

“Five times my age plus 10 years, makes 70. How old am I?”

Make an equation and solve it to find out how old Lee is?

His Dad replied, “Four times my age less 10 years is 130.”

How old is Lee’s Dad?

S1 Non Calculator Weekly 17

1. Simplify the following expressions:

a. $5x - 3y + 4x$ b. $3 + 4a - 3 + 5a$ c. $6xy + 2xy - 3$

2. Express these fractions in their simplest form:

a. $\frac{12}{24}$ b. $\frac{50}{55}$ c. $\frac{27}{33}$

3. Calculate:

a. $5 \times \frac{2}{5}$ b. $\frac{3}{8} \times 16$ c. $\frac{2}{3} \times \frac{4}{5}$

4. If $a = 5$, $b = 3$ and $c = 1$, find the value of:

a. $2a - 3b + c$ b. $ab - 2c$ c. $3ac - 4b$

5. Calculate:

a. $23 \cdot 86 + 3 \cdot 9$ b. $15 \cdot 6 - 2 \cdot 78$

Problem Solving 10

The bill for a holiday to Austria for a party of six, two of which were children, came to £2020.

As one child was only 8 years old, he got free.

The remainder of the cost was split equally among the adults.

What did it cost each adult for the holiday?



S1 Non Calculator Weekly 18

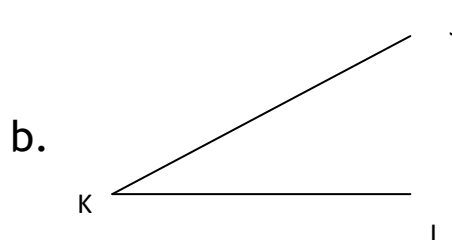
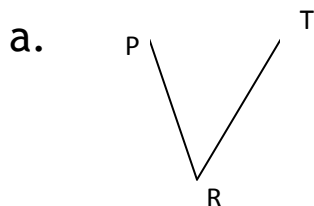
1. Round to 1 decimal place:

a. 2.367

b. 12.35

c. 35.99

2. Name the angles:



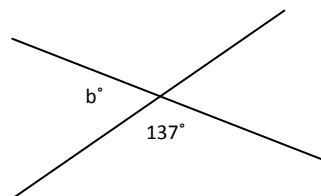
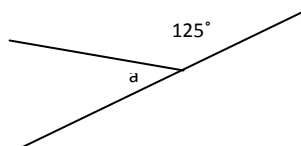
3. Express these fractions in their simplest form:

a. $\frac{28}{52}$

b. $\frac{35}{60}$

c. $\frac{30}{80}$

4. Calculate the values of a and b:



5. Simplify:

a. $3x - 2y + 5x + 5y$

b. $2ab + 3a - ab$

6. Calculate:

a. $5 - 12$

b. $-2 + 7$

c. $2 - 18$

Problem Solving 11

CUT AND STYLE	
SHAMPOO	£4.45
CUT AND BLOW DRY	£18.75
COLOURING	£10.40

Carol has her hair done at “CUT AND STYLE”. Her bill is shown to the left.

a. Calculate the total cost.

b. She pays with 2 £20 notes and gives a £2 tip from her change. How much has she left from her £40?

S1 Non Calculator Weekly 19

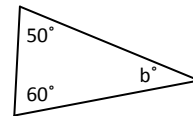
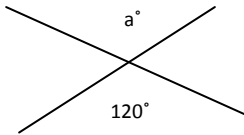
1. Find:

a. $\frac{1}{4}$ of 24

b. $\frac{2}{5}$ of 15

c. $\frac{5}{7}$ of 21

2. Calculate the value of angles a and b:



3. Calculate:

a. $12 - 15$

b. $-2 + 10$

c. $-13 + 18$

4. If $a = 3$ and $b = 5$, find the value of:

a. $2a + 3b$

b. ab

c. $2(a + 3b)$

5. Calculate:

a. $\frac{3}{5} + \frac{1}{4}$

b. $\frac{2}{5} \times \frac{4}{7}$

c. $\frac{4}{5} \times \frac{5}{8}$

Problem Solving 11

A fish tank is 1m long, 25cm wide and 20cm deep.

How many litres of water does it hold?



S1 Non Calculator Weekly 19

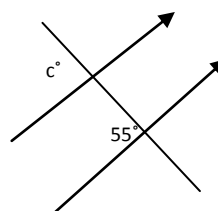
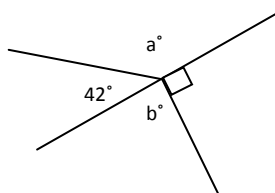
1. Calculate:

a. $-8 + (-2)$

b. $5 - (-4)$

c. $-3 - (-7)$

2. Find the value of a, b and c:



3. Calculate:

a. $21 \cdot 4 \times 200$

b. $36 \cdot 05 \div 50$

4. Find:

a. $\frac{3}{4} - \frac{2}{5}$

b. $\frac{4}{5}$ of 24

c. $\frac{2}{3} \times \frac{5}{6}$

5. Calculate:

a. $5 + 4 \times 2$

b. $6 + (3 - 1)$

c. $7 - 3 \times 2$

6. Write down:

a. $\sqrt{36}$

b. 5^2

Problem Solving 12

In a garden $\frac{1}{3}$ of the area is used for vegetables and $\frac{2}{5}$ for flowers and paths. If the rest of the garden consists of lawns, what fraction of the garden is given to lawns?

S1 Non Calculator Weekly 20

1. Simplify the following expressions:

a. $2a + 3a - 4a$ b. $2c + 5d - 3c$ c. $2y - 3x + 4y + 3x$

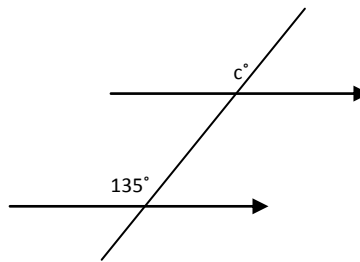
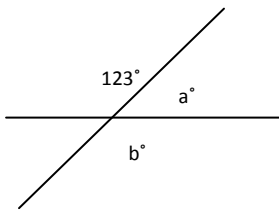
2. Calculate, giving your answer in its simplest form:

a. $\frac{5}{8} + \frac{3}{4}$

b. $25 \times \frac{2}{5}$

c. $\frac{3}{8} \times \frac{6}{7}$

3. Find the values of a, b, and c:



4. Round to 1 decimal place:

a. 12.22

b. 3.45

c. 6.99

5. Calculate:

a. $-12 - 2$

b. $15 - (-12)$

c. $23 + (-6)$

Problem Solving 13

A bowling green is a square of side 35m.

What is the cost of returning it at £2.70 per m^2 ?

