Arithmetic Fluency

Calculate the following:

1) $38 \times 100 =$

2) $\underline{\quad} \times 10 = 78.89$

3) $24.5 \times \underline{\quad} = 2450$

Mathematical Reasoning

Mina and Josh are playing a game. They both count their own points and then round them.

Mina says, "I rounded my score to the nearest 1000, and my rounded score is 17,000.

Josh says, "I rounded my score to the nearest hundred, and my score is 16,400."

Mina says that they cannot work out who won the game, because they rounded to a different accuracy. Is she right?

Daily Workout Year 6 Week 7 - Monday

SPaG

In each sentence, find the incorrect spelling and correct it.

1. Tomorrow, where going to walk to the shops.

2. Joe and Mel were terrified; I was scared to.

3. I had no idea weather my plan would work.

4. Their was a night porter waiting to meet me.

Word of the Day

Read the definition(s) and write your own sentence.

hostile (adjective)

Definition – showing opposition to something; unfriendly

Example – When I arrived at the meeting, a hostile greeting awaited me.

Arithmetic Fluency

Calculate the following:

1) 38 x 100 = 3800

2) 7.889 x 10 = 78.89

3) 24.5 x 100 = 2450

Mathematical Reasoning

Mina and Josh are playing a game. They both count their own points and then round them.

Mina says, "I rounded my score to the nearest 1000, and my rounded score is 17,000.

Josh says, "I rounded my score to the nearest hundred, and my score is 16,400."

Mina says that they cannot work out who won the game, because they rounded to a different accuracy. Is she right?

No – in this case Mina must have scored at least 16,500. The most that Josh could have scored is 16,449. Therefore, Mina won the game.

Daily Workout
Year 6
Week 7 – Monday

SPaG

In each sentence, find the incorrect spelling and correct it.

1. Tomorrow, ~~where~~ going to walk to the shops.
   we're

2. Joe and Mel were terrified; I was scared ~~to~~.
   too

3. I had no idea ~~weather~~ my plan would work.
   whether

4. ~~Their~~ was a night porter waiting to meet me.
   There

Word of the Day

Read the definition(s) and write your own sentence.

hostile (adjective)

Definition – showing opposition to something; unfriendly

Example – When I arrived at the meeting, a hostile greeting awaited me.

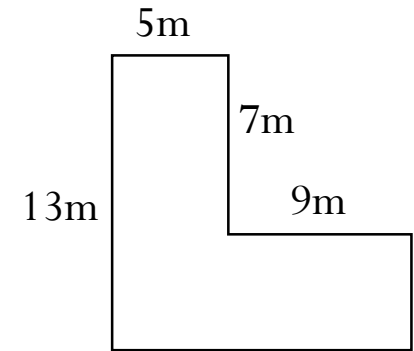## Arithmetic Fluency

Calculate the following:

1) $\frac{1}{5}$ of 105

2) $\frac{3}{7}$ of 154

3) $\frac{3}{4}$ of 22

Mathematical Reasoning

Sally is asked to calculate the area of the shape on the right. She says that she can split the shape in 2 ways to carry out her calculations and work out the area.

5m

7m

13m

9m

Write down the 2 sets of calculations she will carry out, and check that they give the same answer. Which way do you prefer and why?

Daily Workout Year 6 Week 7 – Tuesday

SPaG

Underline any determiners in the sentences below.

1. Tom picked up a ball and placed it on the table.

2. Tilly picked up two pieces of fruit and some lunch.

3. John drank his water, and then ordered a glass of juice.

4. "Continue with your work!" demanded the teacher.

Word of the Day

Read the definition(s) and write your own sentence.

deprive (verb)

Definition – to prevent someone or something from having something they want or need

Example – If you deprive a plant of light or water, it will probably die.

Arithmetic Fluency

Calculate the following:

1) $\frac{1}{5}$ of $105 = 21$

2) $\frac{3}{7}$ of $154 = 66$

3) $\frac{3}{4}$ of $22 = 16.5$

Mathematical Reasoning

Sally is asked to calculate the area of the shape on the right. She says that she can split the shape in 2 ways to carry out her calculations and work out the area.

Write down the 2 sets of calculations she will carry out, and check that they give the same answer. Which way do you prefer and why?

5m
7m
13m
9m
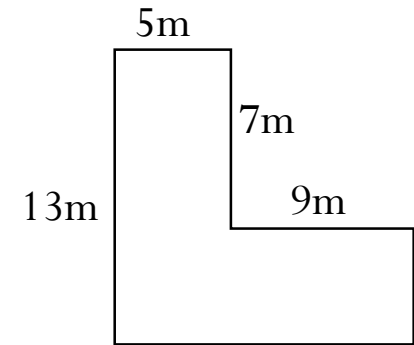
Either: $(13 \times 5) + (9 \times 6) = 119m^2$

Or: $(7 \times 5) + (14 \times 6) = 119m^2$

SPaG

Underline any determiners in the sentences below.

1. Tom picked up a ball and placed it on the table.

2. Tilly picked up two pieces of fruit and some lunch.

3. John drank his water, and then ordered a glass of juice.

4. "Continue with your work!" demanded the teacher.

Word of the Day

Read the definition(s) and write your own sentence.

deprive (verb)

Definition – to prevent someone or something from having something they want or need

Example – If you deprive a plant of light or water, it will probably die.

Arithmetic Fluency

Calculate the following:

1) 27 x 34

2) 78 x 63

3) 217 x 82

Mathematical Reasoning

George, Rebecca and Sunita were asked to work out 61% of 3800.

George divided 3800 by 100, and then multiplied his answer by 61.

Rebecca multiplied 0.61 by 3800 and used this as her answer.

Sunita added together 1900, 380 and 38 to get her answer.

Whose answers will be correct? Can you work out how each of them has solved the problem?

SPaG

Which sentences below use apostrophes correctly? (There is more than one person / animal involved in each sentence.)

1. The childrens' fruit should be placed in the tray.

2. The womens' purses were left on the counter.

3. The boys' toilet is just across the hall.

4. The lions' food is kept behind reinforced glass.

Word of the Day

Read the definition(s) and write your own sentence.

sophisticated (adjective)

Definition – having or involving knowledge of fashion or culture; developed to a high complexity

Example – The machines in the factory had recently been upgraded and they are now highly sophisticated.

Arithmetic Fluency

Calculate the following:

1) $27 \times 34 = 918$

2) $78 \times 63 = 4914$

3) $217 \times 82 = 17,794$

Mathematical Reasoning

George, Rebecca and Sunita were asked to work out 61% of 3800.

George divided 3800 by 100, and then multiplied his answer by 61.

Rebecca multiplied 0.61 by 3800 and used this as her answer.

Sunita added together 1900, 380 and 38 to get her answer.

Whose answers will be correct? Can you work out how each of them has solved the problem?

George thought of 61% like a fraction - $\frac{61}{100}$. He divided it into 100 pieces and then wanted 61 of them, so multiplied by 61.

Rebecca changed 61% to 0.61 and then multiplied.

Sunita added together 50%, 10% and 1%.

All three are good methods and give the correct answer (2318)

SPaG

Which sentences below use apostrophes correctly? (There is more than one person / animal involved in each sentence.)

1. The childrens' fruit should be placed in the tray.

2. The womens' purses were left on the counter.

3. The boys' toilet is just across the hall. ✓

4. The lions' food is kept behind reinforced glass. ✓

Word of the Day

Read the definition(s) and write your own sentence.

sophisticated (adjective)

Definition – having or involving knowledge of fashion or culture; developed to a high complexity

Example – The machines in the factory had recently been upgraded and they are now highly sophisticated.

Daily Workout
Year 6
Week 7 - Wednesday

Arithmetic Fluency

Calculate the following:

1) 56% of 2400

2) 71% of 670

3) 39% of 490

Mathematical Reasoning

Which of the children below got their question right?

Jo: 17 x 23 "I will use partitioning. 10 x 20 = 200 and 7 x 3 = 21, so the answer is 221."

Zach: 15 x 67 "67 x 10 is 670, and half of that again is 335, so the answer is 1005."

Sophie: 21 x 470 "470 times 10 is 4700, so I need to double 4700 and then add 470. The answer is 9870."

Mark: 47 x 16 "4 times 16 is 64, and 7 times 16 is 112, so the answer is 176."

SPaG

Match each word to a suffix to write a new word. Hint: It isn't always as easy as just adding the suffix!

aware _____   confuse _____

owner _____   caution _____

sion   ship   ous   ness

Word of the Day

Read the definition(s) and write your own sentence.

apprehensive (adjective)

Definition – anxious, doubtful or worried about something that is going to happen

Example – I was extremely apprehensive about the upcoming flight.

Arithmetic Fluency

Calculate the following:

1) 56% of 2400 = 1344

2) 71% of 670 = 475.7

3) 39% of 490 = 191.1

Mathematical Reasoning

Which of the children below got their question right?

Jo: 17 x 23 "I will use partitioning. 10 x 20 = 200 and 7 x 3 = 21, so the answer is 221." You cannot partition both numbers like this. The answer is actually 391.

Zach: 15 x 67 "67 x 10 is 670, and half of that again is 335, so the answer is 1005." Correct

Sophie: 21 x 470 "470 times 10 is 4700, so I need to double 4700 and then add 470. The answer is 9870." Correct

Mark: 47 x 16 "4 times 16 is 64, and 7 times 16 is 112, so the answer is 176." The digit '4' represents 40, not 4, so it should be 40 x 16 = 640, and 7 x 16 = 112. The answer is therefore 752.

Daily Workout
Year 6
Week 7 - Thursday

SPaG

Match each word to a suffix to write a new word. Hint: It isn't always as easy as just adding the suffix!

aware — awareness   confuse — confusion

owner — ownership   caution — cautious

sion   ship   ous   ness

Word of the Day

Read the definition(s) and write your own sentence.

apprehensive (adjective)

Definition – anxious, doubtful or worried about something that is going to happen

Example – I was extremely apprehensive about the upcoming flight.

Arithmetic Fluency

Calculate the following:

1) $\dfrac{8}{9} \div 4$

2) $\dfrac{12}{13} \div 3$

3) $\dfrac{2}{7} \div 3$

4) $\dfrac{4}{11} \div 5$

Mathematical Reasoning

A greengrocer went to a market to buy his supply of fruit. He bought 18 boxes of oranges, with 12 in each box. He bought 10 boxes of apples, with 18 in each box.

He sold all the fruit, except for 29 apples.

The next day, he bought the same number of oranges, and 36 less apples.

He sold all the fruit except for 11 oranges.

How many pieces of fruit did he sell altogether?

Daily Workout Year 6 Week 7 - Friday

SPaG

Change the underlined words so that each sentence is written in past progressive tense.

1. I <u>played</u> football in the park today.

2. Will <u>bakes</u> cakes with his mum.

3. They <u>had been</u> painting a watercolour.

4. I <u>am</u> dancing to the music.

Word of the Day

Read the definition(s) and write your own sentence.

abundance (noun)

Definition – a large quantity; more than enough

Example – After everyone's generosity, there was an abundance of cakes to sell on the stall.

Arithmetic Fluency

Calculate the following:

1) $\dfrac{8}{9} \div 4 = \dfrac{2}{9}$ 2) $\dfrac{12}{13} \div 3 = \dfrac{4}{13}$

3) $\dfrac{2}{7} \div 3 = \dfrac{2}{21}$ 4) $\dfrac{4}{11} \div 5 = \dfrac{4}{55}$

Accept equivalent fractions

Mathematical Reasoning

A greengrocer went to a market to buy his supply of fruit. He bought 18 boxes of oranges, with 12 in each box. He bought 10 boxes of apples, with 18 in each box.

He sold all the fruit, except for 29 apples.

The next day, he bought the same number of oranges, and 36 less apples.

He sold all the fruit except for 11 oranges.

How many pieces of fruit did he sell altogether?

On day one, he bought 396 pieces of fruit and sold 367. On the second, he bought 360 pieces and sold 349. Overall, he sold 716 pieces of fruit.

Daily Workout
Year 6
Week 7 - Friday

SPaG

Change the underlined words so that each sentence is written in past progressive tense.

1. I ~~played~~ was playing football in the park today.

2. Will ~~bakes~~ was baking cakes with his mum.

3. They ~~had been~~ were painting a watercolour.

4. I ~~am~~ was dancing to the music.

Word of the Day

Read the definition(s) and write your own sentence.

abundance (noun)

Definition – a large quantity; more than enough

Example – After everyone's generosity, there was an abundance of cakes to sell on the stall.

Daily Workout Year 6 Week 7 - Coverage

	Monday	Tuesday	Wednesday	Thursday	Friday
Arithmetic	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (5C6b)	Solve problems involving increasingly harder fractions to calculate quantities and fractions to divide quantities, including non-unit fractions where the answer is a whole number (4F10a)	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication (6C7a)	Solve problems involving the calculation of percentages [e.g. of measures such as 15% of 360] and the use of percentages for comparison (6R2)	Divide proper fractions by whole numbers (6F5b)
Mathematical Reasoning	Round any whole number to a required degree of accuracy (6N4)	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes (5M7b)	Solve problems involving the calculation of percentages [e.g. of measures such as 15% of 360] and the use of percentages for comparison (6R2)	Perform mental calculations, including with mixed operations and large numbers (6C6)	solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign (5C8b)
SPaG	Homophones (S61)	Determiners (G1.8)	Apostrophes (G5.8)	Suffixes (G6.3)	Past Progressive (G4.1d)
Word of the Day	Hostile	Deprive	Sophisticated	Apprehensive	Abundance