

## Arithmetic Fluency

Calculate the following:

1)  $8^3 - 12^2$

2)  $5^3 + \underline{\quad} = 262$

3)  $9^3 - \underline{\quad}^3 = 665$

## Mathematical Reasoning

The first 4 terms of a sequence are: 9, 16, 23, 30

1) Which one of the following formulas will correctly calculate the  $n^{\text{th}}$  term of the sequence?

$9n + 7$

$9n + 9$

$7n + 2$

$7n + 9$

2) What will the 10<sup>th</sup> term of the sequence be?

3) What will the 101<sup>st</sup> term of the sequence be?



## SPaG

Which of the following sentences is written in past progressive tense?

1. I have baked some cakes.
2. He is playing in the garden with his sister.
3. I run in the park on Saturdays.
4. They were arguing about a board game.

## Word of the Day

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

**belligerent** (adjective)

**Definition** – Hostile and aggressive; wishing to fight or argue

**Example** – His belligerent and reckless behaviour disappointed his family and friends.

The Answers Are On The  
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*no peeking*

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## Arithmetic Fluency

Calculate the following:

1)  $8^3 - 12^2 = 368$

2)  $5^3 + 137 = 262$

3)  $9^3 - 4^3 = 665$

## Mathematical Reasoning

The first 4 terms of a sequence are: 9, 16, 23, 30

1) Which one of the following formulas will correctly calculate the  $n^{\text{th}}$  term of the sequence?

$9n + 7$

$9n + 9$

$7n + 2$

$7n + 9$

2) What will the 10<sup>th</sup> term of the sequence be?

72

3) What will the 101<sup>st</sup> term of the sequence be?

709



## SPaG

Which of the following sentences is written in past progressive tense?

1. I have baked some cakes.
2. He is playing in the garden with his sister.
3. I run in the park on Saturdays.
4. They were arguing about a board game. ✓

## Word of the Day

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

**belligerent** (adjective)

**Definition** – Hostile and aggressive; wishing to fight or argue

**Example** – His belligerent and reckless behaviour disappointed his family and friends.

### Arithmetic Fluency

Calculate the following:

1)  $320 \div 4 =$

2)  $5600 \div 7 =$

3)  $4800 \div 80 =$

### Mathematical Reasoning

204 is a common multiple of 12 and 17.

Explain why:

1) 2040 is a common multiple of 12 and 17

2) 216 is not a common multiple of 12 and 17

3) 410 is not a multiple of 12 or 17



### SPaG

Underline all the pronouns in the sentences below.

1. Marco was excited about his birthday. He expected some great presents.
2. Maria owned the pencil case; it was hers.
3. Jay and Nita bought a ball. They played with it all day.

### Word of the Day

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

**hapless** (adjective)

**Definition** – Unfortunate or unlucky, often leading to unhappiness

**Example** – The hapless passengers sat on the runway, frustrated by the delay.

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## Arithmetic Fluency

Calculate the following:

1)  $320 \div 4 = 80$

2)  $5600 \div 7 = 800$

3)  $4800 \div 80 = 60$

## Mathematical Reasoning

204 is a common multiple of 12 and 17.

Explain why:

- 1) 2040 is a common multiple of 12 and 17  
If 12 and 17 are factors of 204, you can multiply them by ten times as many, so they must be factors of 2040.
- 2) 216 is not a common multiple of 12 and 17  
216 is 12 more than 204, so it must be a multiple of 12, but it is not a multiple of 17.
- 3) 410 is not a multiple of 12 or 17  
If 204 is a common multiple, so is 408 (double 204), so 410 cannot be a multiple of either 12 or 17.



## SPaG

Underline all the pronouns in the sentences below.

1. Marco was excited about his birthday. He expected some great presents.
2. Maria owned the pencil case; it was hers.
3. Jay and Nita bought a ball. They played with it all day.

## Word of the Day

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

**hapless** (adjective)

**Definition** – Unfortunate or unlucky, often leading to unhappiness

**Example** – The hapless passengers sat on the runway, frustrated by the delay.

## Arithmetic Fluency

Calculate the following:

1)  $\frac{2}{5}$  of 135

2)  $\frac{4}{9}$  of 252

3)  $\frac{7}{13}$  of 156

## Mathematical Reasoning

Teddy is getting changed for his sports match.

He has a choice of a blue shirt or a red shirt.

He has a choice of yellow, orange or green shorts.

He has a choice of white or purple socks.

How many different ways can he get dressed for his sports fixture?



## SPaG

Label the subject (s) and object (o) in each sentence below where possible (some might not have an object!).

1. Marcus hugged Leon when he heard the news.
2. Violet was pushed violently.
3. The pencil was picked from the table by Gia.
4. Helena danced excitedly.

## Word of the Day

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

**illiterate** (adjective)

**Definition** – Unable to read or write

**Example** – As a result of missing so much of school when he was younger, he was illiterate.

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## Arithmetic Fluency

Calculate the following:

$$1) \frac{2}{5} \text{ of } 135 = 54$$

$$2) \frac{4}{9} \text{ of } 252 = 112$$

$$3) \frac{7}{13} \text{ of } 156 = 84$$

## Mathematical Reasoning

Teddy is getting changed for his sports match.

He has a choice of a blue shirt or a red shirt.

He has a choice of yellow, orange or green shorts.

He has a choice of white or purple socks.

How many different ways can he get dressed for his sports fixture?

12 ways: BYW, BYP, BOW, BOP, BGW, BGP, RYW, RYP, ROW, ROP, RGW, RGP



## SPaG

Label the subject (s) and object (o) in each sentence below where possible (some might not have an object!).

1. Marcus (s) hugged Leon (o) when he heard the news.
2. Violet (s) was pushed violently.
3. The pencil (s) was picked from the table by Gia (o).
4. Helena (s) danced excitedly.

## Word of the Day

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

**illiterate** (adjective)

**Definition** – Unable to read or write

**Example** – As a result of missing so much of school when he was younger, he was illiterate.

## Arithmetic Fluency

Calculate the following:

1)  $731 \div 17 =$

2)  $1458 \div 27 =$

3)  $9879 \div 37 =$

## Mathematical Reasoning

Harry is trying to find out whether 658 is a multiple of 7. Can you help? How many different ways can you think of to work this out?

Megan is trying to work out all the factors of 32. She has written down 5 factors and thinks this is all of them.

John explains why this cannot be true.

In his explanation, he mentions that factors come in pairs and that 32 is not a square number. What do you think he said?



## SPaG

The sentences below both use modal verbs that indicate certainty. Change the modal verbs so that they indicate possibility.

1. After lunch, we will go out to the park.

2. She must have gone out somewhere.

## Word of the Day

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

**parched** (adjective)

**Definition** – Dried out due to heat; extremely thirsty

**Example** – After another summer without enough rainfall, the parched ground was not suitable for farming.

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## Arithmetic Fluency

Calculate the following:

$$1) 731 \div 17 = 43$$

$$2) 1458 \div 27 = 54$$

$$3) 9879 \div 37 = 267$$

## Mathematical Reasoning

Harry is trying to find out whether 658 is a multiple of 7. Can you help? How many different ways can you think of to work this out?

Use short division to divide 658 by 7. If no remainder, it is a multiple of 7. Recognise that  $90 \times 7 = 630$ , and count up in 7s.

Recognise that 700 is a multiple of 7 and count down in 7s from there.

Megan is trying to work out all the factors of 32. She has written down 5 factors and thinks this is all of them. John explains why this cannot be true. In his explanation, he mentions that factors come in pairs and that 32 is not a square number. What do you think he said?

Factors come in pairs so every number has an even number of factors, except for square numbers because they have one pair that produces just 1 factor (eg.  $4 \times 4$ ). 32 isn't a square number so it has an even number of factors.



## SPaG

## Word of the Day

The sentences below both use modal verbs that indicate certainty. Change the modal verbs so that they indicate possibility.

1. After lunch, we will go out to the park.  
After lunch, we **could** go out to the park.
2. She must have gone out somewhere.  
She **might** have gone out somewhere.

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

**parched** (adjective)

**Definition** – Dried out due to heat; extremely thirsty

**Example** – After another summer without enough rainfall, the parched ground was not suitable for farming.

## Arithmetic Fluency

Calculate the following:

1)  $7\frac{1}{5} \times 4$       2)  $38 \times 2\frac{1}{2}$

3)  $6\frac{4}{7} \times 5$       4)  $13\frac{3}{4} \times 9$

## Mathematical Reasoning

A card factory stores its cards in wooden boxes. Each card is 0.5mm thick, and you can stack exactly 720 cards on top of each other in the box.

The wooden panels at the top and bottom of the box are both 2cm thick.

The warehouse is 4.6m in height.  
How many boxes can be stacked on top of each other?



## SPaG

Which sentence uses a colon appropriately to introduce speech?

1. The teacher queried why the children had been out of the classroom so long: “Where exactly have you been for all of this time?”
2. The teacher asked: “Would you like to explain where you have been?”
3. The teacher wanted to know where the children had been all lesson: “Let’s get on with the lesson.”

## Word of the Day

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

**succinct** (adjective)

**Definition** – something that is said or explained clearly while using as few words as possible; precise

**Example** – He was an excellent scientist: his explanations were always succinct and accurate.

The Answers Are On The  
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## Arithmetic Fluency

Calculate the following:

$$1) 7\frac{1}{5} \times 4 = 28\frac{4}{5} \quad 2) 38 \times 2\frac{1}{2} = 95$$

$$3) 6\frac{4}{7} \times 5 = 32\frac{6}{7} \quad 4) 13\frac{3}{4} \times 9 = 123\frac{3}{4}$$

## Mathematical Reasoning

A card factory stores its cards in wooden boxes. Each card is 0.5mm thick, and you can stack exactly 720 cards on top of each other in the box.

The wooden panels at the top and bottom of the box are both 2cm thick.

The warehouse is 4.6m in height. How many boxes can be stacked on top of each other?

$$\text{Height of cards (space inside)} = 0.5\text{mm} \times 720 = 360\text{mm} \\ = 36\text{cm}$$

$$\text{Total height of box} = 36\text{cm} + 4\text{cm} = 40\text{cm}$$

$$4.6\text{m} = 460\text{cm}$$

$$460 \div 40 = 11.5 \text{ so } \underline{\underline{11 \text{ boxes will fit.}}}$$



## SPaG

Which sentence uses a colon appropriately to introduce speech?

1. The teacher queried why the children had been out of the classroom so long: "Where exactly have you been for all of this time?" ✓
2. The teacher asked: "Would you like to explain where you have been?"
3. The teacher wanted to know where the children had been all lesson: "Let's get on with the lesson."

## Word of the Day

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

**succinct** (adjective)

**Definition** – something that is said or explained clearly while using as few words as possible; precise

**Example** – He was an excellent scientist: his explanations were always succinct and accurate.