Arithmetic Fluency

Calculate the following:

1) 8×9

2) $132 \div 12$

3) ___ $\times 8 = 56$

Mathematical Reasoning

Order these equations from easiest to hardest. Give reasons for your decisions:

$$\frac{7}{14} + \frac{3}{8}$$

$$\frac{3}{11} + \frac{5}{11}$$

$$\frac{4}{5} + \frac{17}{35}$$

$$\frac{16}{24} + \frac{7}{18}$$

$$\frac{3}{8} + \frac{1}{6}$$

Daily Workout Year 6 Week 13 - Monday

SPaG

Which sentence uses tenses correctly?

1. Last week, we are going to the cinema and watched a film.

2. In the morning, we are going to the park, where we will play with a ball.

3. Last year, we are met some friends in the park.

4. After the holidays, we will have a new teacher and we had a new classroom.

Word of the Day

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

prohibitive (adjective)

Definition – Restricting something; a price so high it prevents something being done or bought

Example – The cost of hotels in the area was prohibitive.
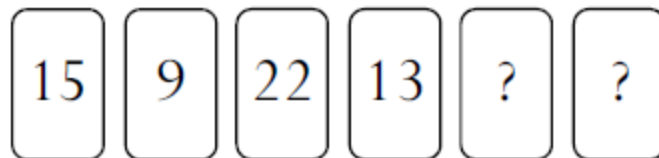
Arithmetic Fluency

Calculate the following:

1) $8 \times 9 = 72$

2) $132 \div 12 = 11$

3) $7 \times 8 = 56$

Mathematical Reasoning

Order these equations from easiest to hardest. Give reasons for your decisions:

$$\frac{7}{14} + \frac{3}{8}$$

$$\frac{16}{24} + \frac{7}{18}$$

$$\frac{3}{11} + \frac{5}{11}$$

$$\frac{3}{8} + \frac{1}{6}$$

$$\frac{4}{5} + \frac{17}{35}$$

There is no 'correct' answer. Children might discuss which / how many denominators need to be converted, and how recognizing that 7/14 = 1/2 makes this addition much easier.

Daily Workout
Year 6
Week 13 - Monday

SPaG

Which sentence uses tenses correctly?

1. Last week, we are going to the cinema and watched a film.

2. In the morning, we are going to the park, where we will play with a ball. ✔

3. Last year, we are met some friends in the park.

4. After the holidays, we will have a new teacher and we had a new classroom.

Word of the Day

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

prohibitive (adjective)

Definition – Restricting something; a price so high it prevents something being done or bought

Example – The cost of hotels in the area was prohibitive.

Primary

Arithmetic Fluency

Calculate the following:

1) 30% of ____ = 21

2) ____ % of 80 = 20

3) 70% of ____ = 133

Mathematical Reasoning

Michael has the following cards. When he turns over the last 2 cards, he works out that the mean of the cards is 17. What numbers could have been on the last two cards?

| 15 | 9 | 22 | 13 | ? | ? |

SPaG

In each sentence, mark the subject (s) and the object (o).

1. The girl picked up the tennis racquet.

2. As the sun set, the campfire was lit by the scout leader.

3. At tea-time, Gemma ate the pizza.

4. When the children argued on the playground, Mark was pushed by Scott.

Word of the Day

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

evade (verb)

Definition – To escape or avoid someone or something

Example – "The children who smashed the window will not evade capture," promised the Headteacher.
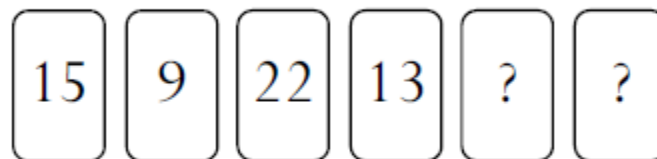
Primary Solutions

Arithmetic Fluency

Calculate the following:

1) 30% of 70 = 21

2) 25% of 80 = 20

3) 70% of 190 = 133

Mathematical Reasoning

Michael has the following cards. When he turns over the last 2 cards, he works out that the mean of the cards is 17. What numbers could have been on the last two cards?

| 15 | 9 | 22 | 13 | ? | ? |

Any 2 numbers that have a total of 43.

Daily Workout Year 6 Week 13 - Tuesday

SPaG

In each sentence, mark the subject (s) and the object (o).

1. The girl picked up the tennis racquet.
   (s)   (o)

2. As the sun set, the campfire was lit by the scout leader.
   (s)
   (o)

3. At tea-time, Gemma ate the pizza.
   (s)   (o)

4. When the children argued on the playground, Mark was pushed by Scott.
   (s)
   (o)

Word of the Day

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

evade (verb)

Definition – To escape or avoid someone or something

Example – "The children who smashed the window will not evade capture," promised the Headteacher.

Arithmetic Fluency

Calculate the following:

1) $9178 + 786$

2) $17,626 + 7476$

3) $78,289 + 68,908$

Mathematical Reasoning

This is a recipe to make 40 ginger biscuits. Freddie wants to make biscuits for 90 people. Although he has plenty of the other ingredients, he only has 1.2kg of flour, so he says he can only make the recipe twice, making biscuits for 80 people. Is he right?

200g salted butter, cubed
150g light brown soft sugar
2 tbsp grated fresh ginger
200g golden syrup
500g self-raising flour
3 tbsp ground ginger
2 tsp bicarbonate of soda
2 small egg yolks, beaten

Daily Workout
Year 6
Week 13 - Wednesday

SPaG

Choose the correct homophone to fit in each sentence.

1. The train fare / fair had risen considerably since she last travelled to London.

2. Despite his frustration, he new / knew that he should go back and apologise.

3. He looked everywhere for a pear / pair of socks.

4. She was too weak / week and exhausted to go on.

Word of the Day

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

analogy (noun)

Definition – A comparison between two things or situations, usually to clarify a point

Example – The analogy he used, about cars waiting in traffic, helped me to understand what he meant.

Primary
Solutions

Arithmetic Fluency

Calculate the following:

1) $9178 + 786 = 9964$

2) $17,626 + 7476 = 25102$

3) $78,289 + 68,908 = 147,197$

Mathematical Reasoning

This is a recipe to make 40 ginger biscuits. Freddie wants to make biscuits for 90 people. Although he has plenty of the other ingredients, he only has 1.2kg of flour, so he says he can only make the recipe twice, making biscuits for 80 people. Is he right?

200g salted butter, cubed
150g light brown soft sugar
2 tbsp grated fresh ginger
200g golden syrup
500g self-raising flour
3 tbsp ground ginger
2 tsp bicarbonate of soda
2 small egg yolks, beaten

He is wrong. He can simplify the recipe (or ratio between biscuits and flour). 125g of flour will make 10 biscuits, so he will only need 1.125kg to make 90.

SPaG

Choose the correct homophone to fit in each sentence.

1. The train fare / fair had risen considerably since she last travelled to London.

2. Despite his frustration, he new / knew that he should go back and apologise.

3. He looked everywhere for a pear / pair of socks.

4. She was too weak / week and exhausted to go on.

Word of the Day

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

analogy (noun)

Definition – A comparison between two things or situations, usually to clarify a point

Example – The analogy he used, about cars waiting in traffic, helped me to understand what he meant.

Daily Workout
Year 6
Week 13 - Wednesday

Arithmetic Fluency

Calculate the following:

1) $2675 \div 5$

2) $7785 \div 9$

3) $45{,}280 \div 8$

Mathematical Reasoning

The numbers 11, 13, 17, 19 and 29 are all prime numbers. Explain how this helps you to decide which of the following fractions can be simplified.

$$\frac{13}{29} \qquad \frac{17}{119} \qquad \frac{11}{19}$$

Daily Workout Year 6 Week 13 - Thursday

SPaG

Have the underlined words in each sentence been used as a verb or a noun?

1. His mum agreed that she would <u>increase</u> his pocket money.

2. He considered the comment a personal <u>insult.</u>

3. Ella agreed that she should never <u>subject</u> anyone else to her singing!

4. They would never <u>doubt</u> their parents again.

Word of the Day

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

unique (adjective)

Definition – The only one of its kind; unusual; special in some way

Example – The clock was unique and therefore worth a lot of money.

Primary
Solutions

Arithmetic Fluency

Calculate the following:

1) $2675 \div 5 = 535$

2) $7785 \div 9 = 865$

3) $45,280 \div 8 = 5660$

Mathematical Reasoning

The numbers 11, 13, 17, 19 and 29 are all prime numbers. Explain how this helps you to decide which of the following fractions can be simplified.

$$\frac{13}{29} \qquad \frac{17}{119} \qquad \frac{11}{19}$$

To be able to simply a fraction, the numerator and denominator must have a common factor. As prime numbers only have one and themselves as factors, any fractions consisting of two different prime number cannot be simplified. The middle fraction simplifies because 119 is a multiple of 17.

Daily Workout Year 6 Week 13 - Thursday

SPaG

Have the underlined words in each sentence been used as a verb or a noun?

1. His mum agreed that she would <u>increase</u> his pocket money. Verb

2. He considered the comment a personal <u>insult</u>. Noun

3. Ella agreed that she should never <u>subject</u> anyone else to her singing! Verb

4. They would never <u>doubt</u> their parents again. Verb

Word of the Day

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

unique (adjective)

Definition – The only one of its kind; unusual; special in some way

Example – The clock was unique and therefore worth a lot of money.

Arithmetic Fluency

Calculate the following:

1) $\dfrac{5}{7} + \dfrac{4}{7}$

2) $\dfrac{5}{6} + \dfrac{19}{30}$

3) $2\dfrac{1}{6} + 3\dfrac{1}{8}$

4) $2\dfrac{5}{8} + 4\dfrac{11}{12}$

Mathematical Reasoning

Class 6D and Class 6H were going on a trip. There were 27 children in 6D and 29 in 6H. 7 adults went on the trip.

The museum they were visiting charged £4.85 for adults and £3.65 for children. They also offered one adult free for every 15 children.

How much did the trip cost in total?

Daily Workout
Year 6
Week 13 – Friday

SPaG

In which sentence below is the semi-colon used correctly?

1. Although he knew it was against the rules; David pushed open the door and walked out.

2. Molly was aware of the problem; she knew it would need to be addressed very soon.

3. Thomas returned to the site; later that day, he began to look around.

4. He was angry; because no had spoken to him.

Word of the Day

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

resurgence (noun)

Definition – A recovery or revival after being forgotten or less popular / active

Example – The resurgence in the popularity of tennis was evident after Wimbledon this year.

Primary Solutions

Arithmetic Fluency

Calculate the following:

1) $\dfrac{5}{7} + \dfrac{4}{7} = 1\dfrac{2}{7}$

2) $\dfrac{5}{6} + \dfrac{19}{30} = 1\dfrac{7}{15}$

3) $2\dfrac{1}{6} + 3\dfrac{1}{8} = 5\dfrac{7}{24}$

4) $2\dfrac{5}{8} + 4\dfrac{11}{12} = 7\dfrac{13}{24}$

Mathematical Reasoning

Class 6D and Class 6H were going on a trip. There were 27 children in 6D and 29 in 6H. 7 adults went on the trip.

The museum they were visiting charged £4.85 for adults and £3.65 for children. They also offered one adult free for every 15 children.

How much did the trip cost in total?

27 + 29 children = 56 children.

56 x £3.65 = £204.40

3 adults are free. 4 x £4.85 = £19.40

Total = £204.40 + £19.40 = £223.80

Daily Workout Year 6 Week 13 - Friday

SPaG

In which sentence below is the semi-colon used correctly?

1. Although he knew it was against the rules; David pushed open the door and walked out.

2. Molly was aware of the problem; she knew it would need to be addressed very soon. ✔

3. Thomas returned to the site; later that day, he began to look around.

4. He was angry; because no had spoken to him.

Word of the Day

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

resurgence (noun)

Definition – A recovery or revival after being forgotten or less popular / active

Example – The resurgence in the popularity of tennis was evident after Wimbledon this year.

Primary Solutions