Stage2 hwk 14 ans key

Answer Key:

1. **A**
2. **C**
3. **D**
4. **B**
5. **B**
6. **C**
7. **B**
8. **D**
9. **C**

Model Answers

1.

In "Sonnet 18," William Shakespeare compares the subject to a summer's day, asserting that the subject is even more beautiful and gentle ("more lovely and more temperate"). He points out that a summer's day can have imperfections, such as rough winds and fleeting duration ("summer's lease hath all too short a date"), but the subject's beauty is eternal and unchanging. This comparison is significant because it elevates the subject above nature's flaws, suggesting a timeless and perfect beauty. Furthermore, by immortalizing the subject's beauty in the poem ("eternal lines to time thou grow'st"), the poet ensures that it will never fade, defying the effects of time and death. The poem celebrates both the subject's beauty and the power of poetry to preserve it forever.

2.

(a) The quotation “But thy eternal summer shall not fade, Nor lose possession of that fair thou ow'st;” means that the subject's beauty ("eternal summer") will never diminish or be lost. "That fair thou ow'st" refers to the beauty that the subject possesses. The poet is assuring that unlike the temporary nature of a real summer, the subject's beauty will remain forever vibrant and unfading, preserved through the poem.

(b) The quotation “So long as men can breathe or eyes can see, So long lives this, and this gives life to thee.” implies that as long as people are alive and can read ("men can breathe or eyes can see"), the poem ("this") will continue to exist, and through it, the subject will live on. The poet is emphasizing that the poem grants immortality to the subject's beauty, ensuring it endures for all time.

Credit: "Sonnet 18" by William Shakespeare was first published in 1609 and is in the public domain.

Sample Creative Writing Answer:

Earlier this year, I was part of a team tasked with building a model bridge for our school’s engineering competition. At first, I thought it would be easy—we just had to work together and follow a plan. But as we started, it became clear that each person had different ideas on how to build the bridge, and none of us wanted to compromise. We argued constantly, and the bridge was turning out more like a jumble of random pieces than the structured design we’d planned.

One afternoon, things reached a breaking point. Frustrated, our team leader, Sarah, called us together and said, “If we keep working against each other, we’ll never finish this. Let’s go around and have each person share their vision and ideas for the bridge.” As we listened to each other, we realized that everyone’s ideas had strengths. One person’s design made the bridge sturdy, while another’s added balance. Slowly, we began to combine our ideas, taking the best parts from each one.

From that moment on, we worked like a real team. I remember feeling a rush of excitement as our bridge finally started to come together, stronger and more creative than any of us could have made alone. In the end, our bridge won second place, but what mattered more was that we’d learned to value each other’s perspectives.

This experience changed how I see teamwork. I used to think working in a group just meant dividing tasks, but now I understand that real teamwork is about collaboration and respecting each person’s input. I left that competition feeling more confident in my ability to work with others, knowing that together, we can create something truly impressive.

This answer uses descriptive language, ambitious vocabulary like “compromise,” “structured design,” and “perspectives,” and includes a turning point in the story that highlights the value of collaboration. It’s reflective and engaging, making it suitable for a bright 13-year-old aiming for full marks.

Maths

ALL ANSWERS (WITH WORKING OUT)

Answer 1:

Amount eaten:

2/5 x 5/8 = 10/40 = 1/4

Amount left:

5/8 - 1/4 = 5/8 - 2/8 = 3/8

Answer: 3/8

Answer 2:

Convert fractions to decimals:

A) 1/4 = 0.25
B) 2/5 = 0.4
C) 3/8 = 0.375 (Correct answer)
D) 1/2 = 0.5

Answer: C) 3/8

Answer 3:

Calculate 180,000 divided by 30 squared.

First, calculate 30 squared = 900.

Then divide:

180,000 / 900 = 200

Answer: 200

Answer 4:

Numbers divisible by both 2 and 3 are multiples of 6.

Number of multiples of 6 up to 100:

100 / 6 = 16

Answer: 16

Answer 5 (Remodeled):

Sum:

13 x 3 = 39

Largest number:

10 + 8 = 18

Middle number:

39 - 10 - 18 = 11

Product:

10 x 11 x 18 = 1980

Answer: 1980

Answer 6:

Total people who chose at least one:

35 + 25 - 10 = 50

People who chose neither:

60 - 50 = 10

Answer: 10

Answer 7:

Cost per kg:

4.50 / 3 = £1.50 per kg

Cost for 7 kg:

7 x 1.50 = £10.50

Answer: £10.50

Answer 8:

Let width = x, length = 2x.

Area:

2x x x = 48
2x^2 = 48
x^2 = 24
x = approx. 4.8989 cm

Perimeter:

2(L + W) = 2(2x + x) = 6x approx. = 29.39 cm

Answer: Approximately 29.39 cm

Answer 9:

Amount spent on game:

1/4 of £80 = £20

Remaining:

£80 - £20 = £60

Amount spent on book:

1/5 of £60 = £12

Total spent:

£20 + £12 = £32

Money left:

£80 - £32 = £48

Answer: £48

Answer 10:

Plotting the points shows they form a rectangle.

Answer: Rectangle

Answer 11 (Remodeled):

Sum of digits:

3 + 6 + 4 + 5 = 18 (which is a multiple of 9)

Arrange digits to get the smallest number:

3456

Answer: 3456

Answer 12:

These are square numbers. Next:

7 squared = 49

Answer: 49

Answer 13:

Total parts:

4 + 5 + 6 = 15

Each part represents:

30 yellow marbles / 6 = 5 marbles per part

Total marbles:

15 parts x 5 = 75 marbles

Answer: 75

Answer 14:

Time:

150 km / 25 km/h = 6 hours

Answer: 6 hours

Answer 15:

7/12 = 1/2 + 1/12

Answer: 1/2 + 1/12

Answer 16:

Total days needed:

150 pages / 20 pages per day = 7.5 days

Day 8 from Tuesday is the following Tuesday.

Answer: Tuesday

Answer 17:

Total parts:

2 + 3 = 5

Each part:

30 squares / 5 = 6

Shaded squares:

2 x 6 = 12

Answer: 12

Answer 18:

Each part represents:

35 tulips / 5 = 7 flowers per part

Lilies:

7 parts x 7 = 49 lilies

Answer: 49 lilies

Answer 19:

16 pounds / 0.80 = 20

Answer: 20 pens

Answer 20:

80 x 7 = 560

Answer: 560

Answer 21:

The number is 88.

Answer: 88

Answer 22:

M = 13 kg, A = 1 kg, T = 20 kg, H = 8 kg

Total weight:

13 + 1 + 20 + 8 = 42 kg

Answer: 42 kg

Answer 23:

Percentage for Other subjects:

100% - (30% + 25% + 20%) = 25%

Angle:

25% x 360 degrees = 90 degrees

Answer: 25% and 90 degrees

Answer 24:

After 3 hours:

500 x 2 x 2 x 2 = 4000

Answer: 4000 bacteria

Answer 25:

4x - 7 = 17
4x = 24
x = 6

Answer: 6

Answer 26 (Remodeled):

Total playing at least one sport:

30 + 40 - 20 = 50

Students playing neither:

120 - 50 = 70

Answer: 70

Answer 27:

Rounded length:

12 meters

Length of each piece:

12 / 7 = approx. 1.71 meters

Answer: 1.71 meters

Answer 28:

Perimeter:

6 + 3 + 3 + 3 + 3 + 6 + 3 = 27 cm

Area:

(6 x 3) + (3 x 3) = 18 + 9 = 27 cm²

Answer: 27 cm and 27 cm²

Answer 29:

Surface area:

14 cm x 15 cm = 210 cm²

Answer: 210 cm²

Answer 30:

Total perimeter:

144 - 36 = 108 cm

Answer: 108 cm