

Sprint Round Answer Sheet

Name: Answer Key Grade: _____ School: _____

Answer format: Leave all answers in simplest form below. Remember to give the answer the question asks for and watch out for units! You do not have to show any work; only the numerical answer is necessary to receive credit. After the contest, you may keep the problem sheet and turn in this answer sheet with all required information filled out to your proctor.

1. 1333.2

11. Thursday

2. 14 miles

12. 1

3. 10²⁰¹⁶

13. 37 chairs

4. 14 pages

14. $\frac{1}{2}$

5. 20 cents

15. 452 π

6. 9 inches

16. 210 teams

7. 10 feet

17. $\frac{26}{51}$

8. 27 days

18. 12 ways

9. 326

19. 31

10. 20 m²

20. At least one city begins and ends with a consonant.

OR

Every city begins and ends with a consonant.

21 6
27 1
27 8

6

1. What is $1200 + 120 + 12 + 1.2$?
2. Anna walks 10 miles south, then 24 miles north. How far is she in miles from her original position?
3. Which is larger: 10^{2016} or 2016^{10} ? (Don't simplify - just write it as it is in the question.)
4. Mr. Lomas assigns pages 44 through 57 as homework one day. How many pages will his students have to do?
5. Two pens and three pencils cost 60 cents. Three pens and two pencils cost 40 cents. How much does one pen and one pencil cost?
6. A piece of paper is 3 times as long as it is wide. Its perimeter is 24 inches. What is the length in inches?
7. Elisa is 5 feet and 8 inches tall. She is standing next to a building 34 feet tall. If the building's shadow is 60 feet long, how long is Elisa's shadow in feet?
8. A magical stone is on a straight path. On Tuesdays, it rolls 3 feet north, and on Thursdays, it rolls 1 foot south. On all other days, it doesn't move. If it starts its rolling on Wednesday, in how many days will it first reach 8 feet from its starting point for the first time?
9. Hannah is training for a marathon. She runs 1 mile the first day, 2 miles each of the next two days, 3 miles the next three days, and so on. On the n th day, she runs 26 miles in one day for the first time. What is n ?
10. Katie is planting a garden 5 meters long and 3 meters wide. She wants to build a 1 meter wide walkway out of stone bordering the outside of all four sides of her garden. How many square meters of stone does she need for the walkway?
11. My birthday is on April 5, 2001. If my birthday was on a Tuesday in 2016, on what day of the week was I born? (There are 365 days in a year, and 366 on years divisible by 4.)
12. Mackenzie: Nicole is lying.
Nicole: Olivia is telling the truth.
Olivia: Exactly one of us is lying.

How many of them are telling the truth?
13. Harvest Ark Middle School is having an assembly, and needs to arrange some chairs. However, the chairs cannot be perfectly divided into multiple rows of more than one chair. When divided into 5 rows, there are 2 chairs left over, and when divided into 9 rows, there is 1 chair left over. What is the smallest number of chairs that could be in the assembly?
14. Sarah and Rebecca each flip a coin 3 times. What is the probability that Sarah gets **more** tails than Rebecca?
15. A goat is tied by a 24 foot rope to the corner of a rectangular barn that is 20 feet long and 16 feet wide. What is the area in which the goat can roam? Express your answer in terms of pi.

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16. I want to form a math team of 4 people out of 10 mathletes. How many different teams can I form?
 17. I draw two cards from a standard 52-card deck. What is the probability they are different colors?
 18. How many ways are there to arrange 5 people around a circular table if two of them, Connie and Daisy, must sit next to each other?
 19. How many terminal zeros (or zeroes at the end of a number) are there in the decimal representation of $125!$? (! in this case means factorial, defined as $n! = n * (n - 1) * (n - 2) * \dots * 2 * 1$. For example, $3! = 3 * 2 * 1 = 6$.)
 20. Write the negation of the following statement without using "no," "not," or "none." (No negative words.)
"Every city name starts or ends with a vowel."