International SoM Contest 2026 Grade Three Solutions

1) **C** Regroup the numbers to make groups of 10:
$3 + 11 + 5 + 19 + 5 + 17 = 3 + 17 + 11 + 19 + 5 + 5$
$= 20 + 30 + 10$
$= 60$

2) **A** February has 28 days in a regular year. It has 29 days in a leap year.

3) **C** Relocate the numbers to make the calculation easier.
$5 \times 9 \div 3 \times 2 = 9 \div 3 \times 5 \times 2$
$= 3 \times 10$
$= 30$

4) **C** The first part of the pattern is letters in order: E, F, G, so the next term starts with H. The second part of the pattern is numbers that increase by adding three: 1, 4, 7, so the next term has the number $7 + 3 = 10$. Therefore, the next term is H10.

5) **D** The only number that reads the same forwards and backwards is 3443.

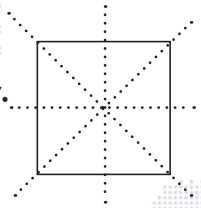
6) **B** A difference of two numbers can only be even if both numbers are even or if both numbers are odd. The only subtraction like this in the list is $44 - 18 = 26$.

7) **C** Rephrase the sentence: All of Penelope's beads are white, except seven.
So, $18 - 7 = 11$ beads are white

8) **C** Since a dozen is 12, two dozen is $2 \times 12 = 24$. Ben baked five less than two dozen, therefore he baked $24 - 5 = 19$ cupcakes.

9) **B** Since Sofia started at the top of page 23, she did not read 22 pages. Therefore, Sofia read $52 - 22 = 30$ pages.

10) **A** A square can be folded into identical halves horizontally, vertically, and diagonally. Therefore, a square has exactly four lines of symmetry.



11) **B** Of the choices given, 42, 49, and 56 are divisible by 7. Out of these numbers, only 42 rounds to 40 when rounded to the nearest 10.

12) **B** Tiffany, Afia, and Jasmine each invited one friend for a total of six people to the beach. Therefore, they will need six pieces. The number of parallel cuts is one less than the number of pieces needed. Therefore, they need to make 5 parallel cuts.

13) **A** If Eriel gifted half of her shells, she gave $80 \div 2 = 40$ shells to Rick. If she has 40 shells left, then she gave $40 \div 2 = 20$ shells to Flounder.

14) **C** Lucy can eat one dumpling in 12 seconds, so she can eat $60 \div 12 = 5$ dumplings in 60 seconds or one minute. In three minutes, Lucy can eat $5 \times 3 = 15$ dumplings.

15) **C** Following the pattern, James runs six-fourths of the track on day 6. Six-fourths is the same as four-fourths added to two-fourths. Since, four-fourths is one whole, six-fourths is 1and two-fourths.

16) **B** The total number of points the group of four students scored is $18 \times 4 = 72$ points. The total number of points the group of two students scored is $24 \times 2 = 48$ points. Altogether, the six students scored $72 + 48 = 120$ points. The average score of all six students is $120 \div 6 = 20$ points.

©2026 Spirit of Math Schools® Inc.

International SoM Contest 2026 Grade Three Solutions

17) **B** There are four choices for the first letter, and for each of these choices, there are three choices for the second letter, and for each of these choices, there are two choices and so on. There are 4! ways to arrange the letters in CAMP.

$4! = 4 \times 3 \times 2 \times 1$

$= 24$

18) **D** A perimeter is the distance around a two-dimensional shape. The perimeter of the sports field is $4 + 4 + 2 + 2 = 12$ km. Hussein ran a total of $12 \times 3 = 36$ km.

19) **C** Start with 28. Add any amounts of money received and subtract any amounts of money spent. Then, regroup the numbers to make groups of 10:

$28 - 24 + 34 + 57 - 68 + 23 = 28 - 68 - 24 + 34 + 57 + 23$

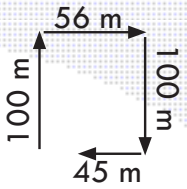
$= -40 + 10 + 80$

$= 50$

Liam has $50 left in his piggy bank.

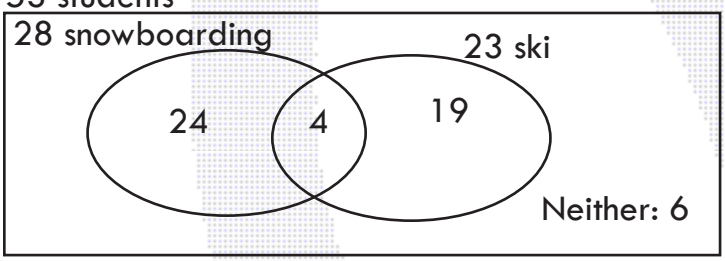
20) **C** The sum of the first 5 two-digit prime numbers is $11 + 13 + 17 + 19 + 23 = 83$.

21) **A** Svitlana walks 100 m north (up), 56 m east (right), 100 m south (down), and 45 m west (left), leaving her $56 - 45 = 11$ m away from her starting place.



22) **B** There are four intervals in between the five strikes at five o'clock. If four intervals take 24 seconds, then one interval takes $24 \div 4 = 6$ seconds. If the clock takes 54 seconds to strike the hour, then there must be $54 \div 6 = 9$ intervals. The number of intervals is always one less than the number of strikes, so the time must be $9 + 1 = 10$ o'clock.

23) **B** Six students did neither activity, so $53 - 6 = 47$ students did at least one class. The number of students who did either a snowboarding class or a skiing class or both is $23 + 28 = 51$. Therefore, there are $51 - 47 = 4$ students who did both a snowboarding lesson and a skiing class.



24) **B** From 11:15 a.m. to 3:00 p.m., there are 3 hours and 45 minutes. Jamie's travel time, both ways is $2 \times 30 = 60$ minutes which is equivalent to one hour. Therefore, he was at the hockey practice for one hour less than 3 hours and 45 minutes. He was there for 2 hours and 45 minutes.

25) **C** In the worst-case scenario, she picks 4 red + 6 green + 10 yellow = 20 crystals, before picking any blue crystals. The next crystal Symphony picks will certainly be blue, so she needs to take out 21 crystals get at least one blue crystal.

©2026 Spirit of Math Schools® Inc.

International SoM Contest 2026 Grade Three Solutions

26) **A** If the star and cloud add together to give a moon, then the moon subtracted by the cloud should give a star.

Alternative solution: Assign a unique value to each symbol. The ★ could be 1and the ☁ could be 2. Therefore, the ☾ would be 2 + 1 = 3. So, ☾ – ☁ would be 3 – 2 = 1, which is the same value as the ★.

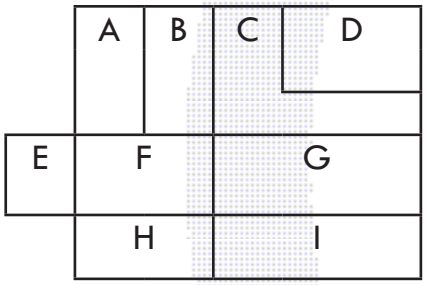
27) **A** Work backwards from September 23rd. Rachel's birthday is 23 + 3 + 7 – 2 + 3 = October 4th. The movie comes out one week before Rachel's birthday. Seven days before October 4th is October 4th – 7 = September 27th.

28) **C** All creatures have at least 4 legs: 10 × 4 legs = 40 legs. There are 60 – 40 = 28 legs left, which needs to go to the spiders (since spiders have eight legs). Every spider has four more legs than dragons do. Therefore, there are 28 ÷ 4 = 7 spiders in Norman's Mathcraft world.

29) **D** Make an organized chart to determine which class Zayn shares with Bob. Zayn is taking History and Math with a friend who has five letters in his name, which means he must be taking either History or Math with either Ahmad or Diego. Since he is not taking Math with Ahmad, he must be taking History with Ahmad and Math with Diego. This means Zayn must be taking either English or Science with either Bob or Carson. Since he is not taking Science with Carson, he must be taking English with Carson and Science with Bob. Therefore, the class that Zayn shares with Bob is Science.

	English	History	Math	Science
Ahmad	X	✓	X	X
Bob	X	X	X	✓
Carson	✓	X	X	X
Diego	X	X	✓	X

30) **C**



# of letters	Rectangles	# of rectangles
1	A, B, D, E, F, G, H, I	8
2	AB, CD, EF, FG, FH, GI, HI	7
3	BCD, ABF, CDG, EFG	4
4	ABCD, ABFH, CDGI, FGHI	4
6	ABCDFG	1
8	ABCDFGHI	1
Total		25

©2026 Spirit of Math Schools® Inc.