Whatcom County Math Championship – 2019
Mental Math – 4th Grade

1. What is two to the fifth power?

2. What is the perimeter of a square with area one hundred and forty four?

3. How many two digit numbers are divisible by five?

4. How many ways are there to arrange the letters in the word MENTAL?

5. How many vertices are there on a regular octahedron?

SWITCH TEAM MEMBERS

6. What is the product of three and five and seven?

7. What is the remainder when eight hundred and thirty four is divided by nine?

8. How many squares of all sizes are there on a three-by-three checkerboard?

9. What is the sum of the first four powers of three?

10. What is twenty-nine times thirty-one?

SWITCH TEAM MEMBERS

11. What is nine thousand one hundred and two minus two thousand and nineteen?

12. What is seventy-five percent of seventy-two?

13. As a reduced fraction, what number is halfway between one – twelfth and one – fourth?

14. What is the sum of the squares of the first 5 numbers?

15. What is seventy-two hundredths as a reduced fraction?

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16. How many inches are in seven feet seven inches?

17. What is the twelfth prime number?

18. What is the volume of a cube with a surface area of ninety-six?

19. What is the average of the first four cube numbers?

20. If Jasper takes one and three quarters hours to travel eight-four miles, how fast are they going, in miles per hour?

Whatcom County Math Championship – 2019
Mental Math – 5th Grade

1. What is the perimeter of a square with area one hundred and forty four?

2. How many two digit numbers are divisible by five?

3. How many ways are there to arrange the letters in the word MENTAL?

4. How many vertices are there on a regular octahedron?

5. To the nearest whole number, what is the sum of fifty-six ninths and fifty-four sevenths?

SWITCH TEAM MEMBERS

6. What is the remainder when eight hundred and thirty four is divided by nine?

7. How many squares of all sizes are there on a three-by-three checkerboard?

8. What is the sum of the first four powers of three?

9. What is twenty-nine times thirty-one?

10. What is the difference of one-fourth minus one-fifth, as a decimal?

SWITCH TEAM MEMBERS

11. What is seventy-five percent of seventy-two?

12. As a reduced fraction, what number is halfway between one – twelfth and one – fourth?

13. What is the sum of the squares of the first 5 numbers?

14. What is seventy-two hundredths as a reduced fraction?

15. What is the product of four and six and eight?

SWITCH TEAM MEMBERS

16. What is the twelfth prime number?

17. What is the volume of a cube with a surface area of ninety-six?

18. What is the average of the first four cube numbers?

19. If Jasper takes one and three quarters hours to travel eight-four miles, how fast are they going, in miles per hour?

20. What is the difference between three and a half squared and two and a half squared?

Whatcom County Math Championship – 2019
Mental Math – 6ᵗʰ Grade

1. How many two digit numbers are divisible by five?

2. How many ways are there to arrange the letters in the word MENTAL?

3. How many vertices are there on a regular octahedron?

4. To the nearest whole number, what is the sum of fifty-six ninths and fifty-four sevenths?

5. What is one-half of three-fourths of five-sixths of one hundred and twenty?

SWITCH TEAM MEMBERS

6. How many squares of all sizes are there on a three-by-three checkerboard?

7. What is the sum of the first four powers of three?

8. What is twenty-nine times thirty-one?

9. What is the difference of one-fourth minus one-fifth, as a decimal?

10. What is two to the seventh power?

SWITCH TEAM MEMBERS

11. As a reduced fraction, what number is halfway between one – twelfth and one – fourth?

12. What is the sum of the squares of the first 5 numbers?

13. What is seventy-two hundredths as a reduced fraction?

14. What is the product of four and six and eight?

15. If the angles in a triangle are in the ratio of seven to eight to nine, what is the measure of the middle angle?

SWITCH TEAM MEMBERS

16. What is the volume of a cube with a surface area of ninety-six?

17. What is the average of the first four cube numbers?

18. If Jasper takes one and three quarters hours to travel eight-four miles, how fast are they going, in miles per hour?

19. What is the difference between three and a half squared and two and a half squared?

20. What is the height of a triangle with a base of twelve and an area of ninety-six?

Whatcom County Math Championship – 2019
Mental Math – 7th +8th Grade

1. How many ways are there to arrange the letters in the word MENTAL?

2. How many vertices are there on a regular octahedron?

3. To the nearest whole number, what is the sum of fifty-six ninths and fifty-four sevenths?

4. What is one-half of three-fourths of five-sixths of one hundred and twenty?

5. What is the difference of twenty-five squared and twenty-four squared?

SWITCH TEAM MEMBERS

6. What is the sum of the first four powers of three?

7. What is twenty-nine times thirty-one?

8. What is the difference of one-fourth minus one-fifth, as a decimal?

9. What is two to the seventh power?

10. How many squares of all sizes are there on a four-by-four checkerboard?

SWITCH TEAM MEMBERS

11. What is the sum of the squares of the first 5 numbers?

12. What is seventy-two hundredths as a reduced fraction?

13. What is the product of four and six and eight?

14. If the angles in a triangle are in the ratio of seven to eight to nine, what is the measure of the middle angle?

15. To the nearest whole number, what is the square root of one hundred and thirty three?

SWITCH TEAM MEMBERS

16. What is the average of the first four cube numbers?

17. If Jasper takes one and three quarters hours to travel eight-four miles, how fast are they going, in miles per hour?

18. What is the difference between three and a half squared and two and a half squared?

19. What is the height of a triangle with a base of twelve and an area of ninety-six?

20. If two to the x power is forty-eight, what is x, to the nearest whole number?