Whatcom County Math Championship – 2017
Mental Math – 4th Grade

1. What is two times four times six?

2. What is two-thousand seventeen plus seven thousand, one hundred and two?

3. How many sixths are there in six and two-thirds?

4. What is the distance between three point six and negative four point seven?

5. Seven squares of area 36 are placed edge to edge. What is the perimeter?

SWITCH TEAM MEMBERS

6. What is the area of a triangle with a base of twelve and a height of nine?

7. What is the least common multiple of fifteen and eighteen?

8. What is the remainder when nine hundred and twenty six is divided by seven?

9. What is the average of the first five square numbers?

10. What is the square of the difference of twenty-three and fourteen?

SWITCH TEAM MEMBERS

11. How many inches are there in six feet, three inches?

12. How what is the side length of a square whose perimeter is equal to its area?

13. What is the product of four and a half and five and a half? Write your answer as a decimal.

14. How many minutes are there in a day?

15. What is the sum of the interior angles of an octagon?

SWITCH TEAM MEMBERS

16. What is the lowest common denominator for two-thirds and four-fifths?

17. What is the difference between nine squared and seven squared?

18. If you roll a eight-sided die and a six-sided die, how many different outcomes are there?

19. What is two to the fifth plus three to the fourth plus four to the third?

20. How many degrees does the minute hand of a clock travel from 11:40 a.m. to 1:15 p.m.?

Whatcom County Math Championship – 2017
Mental Math – 5th Grade

1. What is two-thousand seventeen plus seven thousand, one hundred and two?

2. How many sixths are there in six and two-thirds?

3. What is the distance between three point six and negative four point seven?

4. Seven squares of area 36 are placed edge to edge. What is the perimeter?

5. What is the eleventh prime number?

SWITCH TEAM MEMBERS

6. What is the least common multiple of fifteen and eighteen?

7. What is the remainder when nine hundred and twenty six is divided by seven?

8. What is the average of the first five square numbers?

9. What is the square of the difference of twenty-three and fourteen?

10. If the angles in a triangle are in a ratio of two to three to four, what is the smallest angle?

SWITCH TEAM MEMBERS

11. How what is the side length of a square whose perimeter is equal to its area?

12. What is the product of four and a half and five and a half? Write your answer as a decimal.

13. How many minutes are there in a day?

14. What is the sum of the interior angles of an octagon?

15. What is the sum of the factors of eighteen?

SWITCH TEAM MEMBERS

16. What is the difference between nine squared and seven squared?

17. If you roll a eight-sided die and a six-sided die, how many different outcomes are there?

18. What is two to the fifth plus three to the fourth plus four to the third?

19. How many degrees does the minute hand of a clock travel from 11:40 a.m. to 1:15 p.m.?

20. Write the reciprocal of one point two as a fraction.

Whatcom County Math Championship – 2017
Mental Math – 6th Grade

1. How many sixths are there in six and two-thirds?

2. What is the distance between three point six and negative four point seven?

3. Seven squares of area 36 are placed edge to edge. What is the perimeter?

4. What is the eleventh prime number?

5. What is the product of twenty-three and seventeen?

SWITCH TEAM MEMBERS

6. What is the remainder when nine hundred and twenty six is divided by seven?

7. What is the average of the first five square numbers?

8. What is the square of the difference of twenty-three and fourteen?

9. If the angles in a triangle are in a ratio of two to three to four, what is the smallest angle?

10. What is the volume of a cube with a surface area of 486?

SWITCH TEAM MEMBERS

11. What is the product of four and a half and five and a half? Write your answer as a decimal.

12. How many minutes are there in a day?

13. What is the sum of the interior angles of an octagon?

14. What is the sum of the factors of eighteen?

15. One two three four in base five is what number in base ten?

SWITCH TEAM MEMBERS

16. If you roll a eight-sided die and a six-sided die, how many different outcomes are there?

17. What is two to the fifth plus three to the fourth plus four to the third?

18. How many degrees does the minute hand of a clock travel from 11:40 a.m. to 1:15 p.m.?

19. Write the reciprocal of one point two as a fraction.

20. Peggy scored eighty-three and ninety-five on two tests; what would she have to score on her next test to get an average of ninety on the three tests?

Whatcom County Math Championship – 2017
Mental Math – 7th + 8th Grade

1. What is the distance between three point six and negative four point seven?

2. Seven squares of area 36 are placed edge to edge. What is the perimeter?

3. What is the eleventh prime number?

4. What is the product of twenty-three and seventeen?

5. What whole number is closest to the square root of three times fourteen?

SWITCH TEAM MEMBERS

6. What is the average of the first five square numbers?

7. What is the square of the difference of twenty-three and fourteen?

8. If the angles in a triangle are in a ratio of two to three to four, what is the smallest angle?

9. What is the volume of a cube with a surface area of 486?

10. If you roll two six-sided dice and add the results, what is the probability that you will get a Fibonacci number? Write as a fraction in lowest terms.

SWITCH TEAM MEMBERS

11. How many minutes are there in a day?

12. What is the sum of the interior angles of an octagon?

13. What is the sum of the factors of eighteen?

14. One two three four in base five is what number in base ten?

15. What is eight factorial divided by five factorial?

SWITCH TEAM MEMBERS

16. What is two to the fifth plus three to the fourth plus four to the third?

17. How many degrees does the minute hand of a clock travel from 11:40 a.m. to 1:15 p.m.?

18. Write the reciprocal of one point two as a fraction.

19. Peggy scored eighty-three and ninety-five on two tests; what would she have to score on her next test to get an average of ninety on the three tests?

20. What is the area of a square with a diagonal of 32?