

Detroit Country Day 5th Grade Summer Math Packet

Dear 5th Grade Families,

The purpose of summer math homework is for students to keep their computation and problem solving skills sharp throughout the summer.

Math computation facts are essential for success in the 5th grade math classroom. Returning students should have completed Reflex math with 100% fluency by the end of their 4th grade year. **Students will receive an incoming math grade for Reflex based on their percentage entering fifth grade.** For example, if a student is 84% fluent, they will receive an 84% score in our math gradebook. Reflex is one of the data points used to determine math classroom placement. Students should strive to reach 100% by the end of the summer. New students to DCDS should practice their facts daily. They can use multiplication.com or other fact practicing apps as a tool to master their basic facts.

This packet consists of several sections of essential computational skills that will help students be successful this school year. Each section includes 5 questions.

**Students who want to practice each skill more may do so on IXL. The IXL number is included within each section.

Attached to the back of the packet are two CML assessments (6 questions each). We ask that students try to complete at least **5 of the 12 questions**. For those students seeking a challenge, they can attempt all of the questions.

Thank you,
The Fifth Grade Team



5th Grade Summer Math Requirements

- 100% Reflex Math or daily practice ___ / 100
- Completed all 45 questions in packet ___ / 45
- Completed 5 of 12 CML question ___ / 5



Section 1-Show your work on this paper or staple a paper to the back.

Learning Target: I can multiply whole numbers.

IXL Number: 5th Grade D.1 - D.18

1.) $787 \times 74 =$ 1. _____

2.) $4,132 \times 66 =$ 2. _____

3.) $956 \times 289 =$ 3. _____

4.) $45 \times 27 =$ 4. _____

5.) Mr. Reeths wants to buy a set of chromebooks for his class. He has 29 students in his class, and each chromebook costs \$229. How much money does Mr. Reeths have to fundraise in order to afford the chromebooks for his class?

Section 2-Show your work on this paper or staple a paper to the back.

Learning Target: I can divide whole numbers.

IXL Number: 5th Grade E.1 - E.18

6.) $4,932 \div 16 =$ 6. _____

7.) $1,531 \div 2 =$ 7. _____

8.) $870 \div 58 =$ 8. _____

9.) $557 \div 86 =$ 9. _____

10.) The Middle School needs to order buses to go to the DSO for a field trip. If there are 215 students in the Middle School, and each bus can fit 42 students, how many buses should the Middle School order?

Section 3-Show your work on this paper or staple a paper to the back.

Learning Target: I can add fractions and mixed numbers with unlike denominators.

IXL Number: 5th Grade M.1 - M.9

Please reduce your answers.

11.) $\frac{5}{8} + \frac{1}{2} =$ 11. _____

12.) $\frac{1}{3} + \frac{3}{7} =$ 12. _____

13.) $3\frac{3}{5} + 2\frac{3}{4} =$ 13. _____

14.) $7\frac{1}{4} + 4\frac{1}{3} =$ 14. _____

15.) John and Josh went to Pizza Hut together, and they each ordered a pizza. John ate $\frac{5}{8}$ of his pizza, and Josh ate $\frac{3}{4}$ of his pizza. How much pizza did they eat all together?

Section 4-Show your work on this paper or staple a paper to the back.

Learning Target: I can subtract fractions and mixed numbers with unlike denominators.

IXL Number: 5th Grade M.1 - M.9

Please reduce your answers.

16.) $\frac{3}{4} - \frac{2}{5} =$ 16. _____

17.) $\frac{5}{6} - \frac{1}{4} =$ 17. _____

18.) $4\frac{1}{3} - 2\frac{3}{4} =$ 18. _____

19.) $5\frac{5}{7} - 1\frac{1}{2} =$ 19. _____

20.) Alec ran $\frac{3}{8}$ of a mile. Ellis ran $\frac{1}{4}$ of a mile. How much further did Alec run?

Section 5-Show your work on this paper or staple a paper to the back.

Learning Target: I can multiply fractions.

IXL Number: 5th Grade O.1 - O.7 & 5th Grade P.1 - P.7

Please reduce your answers.

21.) $6 \times \frac{1}{4} =$ 21. _____

22.) $15 \times \frac{1}{3} =$ 22. _____

23.) $\frac{2}{5} \times \frac{5}{12} =$ 23. _____

24.) $\frac{3}{4} \times \frac{4}{5} =$ 24. _____

25.) A gallon of fruit punch is 64 oz. If Mrs. Schultz drinks $\frac{3}{8}$ of a gallon, how many ounces of punch did Mrs. Schultz consume?

Section 6-Show your work on this paper or staple a paper to the back.

Learning Target: I can add and subtract decimals.

IXL Number: 5th Grade AA.1 - AA.12

26.) $\$35.68 + \$27.47 =$ 26. _____

27.) $56.92 + 7.45 =$ 27. _____

28.) $49.17 - 11.99 =$ 28. _____

29.) $\$60 - \$12.97 =$ 29. _____

30.) Mr. Gunsorek was buying supplies for gym class next year. He bought a soccer ball for \$23.47 and a basketball for \$18.39. He paid with a \$50 bill. How much change will he get back?

Section 7-Show your work on this paper or staple a paper to the back.

Learning Target: I can multiply decimals.

IXL Number: 5th Grade DD.1 - DD.8

31.) $7.3 \times 7 =$ 31. _____

32.) $8.8 \times 2.5 =$ 32. _____

33.) $\$7.97 \times 15 =$ 33. _____

34.) $8.63 \times 47.4 =$ 34. _____

35.) Mitchell has a puzzle with a length of 4.7 inches and a width of 5.9 inches. What is the area of the puzzle?

Section 8-Show your work on this paper or staple a paper to the back.

Learning Target: I can divide decimals.

IXL Number: 5th Grade FF.1 - FF.8

36.) $9.584 \div 4 =$ 36._____

37.) $153.87 \div 23 =$ 37._____

38.) $28.96 \div 0.8 =$ 38._____

39.) $4.8 \div 0.05 =$ 39._____

40.) Sarah bought postcards of Paris for \$25.50. If each postcard costs 85 cents, how many postcards did Sarah buy?

Section 9-Show your work on this paper or staple a paper to the back.

Learning Target: I can write numbers in standard, word, and expanded form.

IXL Number: 5th Grade A.1 - A.5

41.) Write 507,614 in expanded form.

42.) Write 645,590 in word form.

43.) Write sixty thousand, four hundred one in standard form.

44.) Write 35,640 in expanded form.

45.) Write 732,904 in word form.



NAME _____

PYTHAGOREAN DIVISION

MEET 2

DECEMBER 1, 2016

GRADE 4
30 MINUTES

ANSWER COLUMN

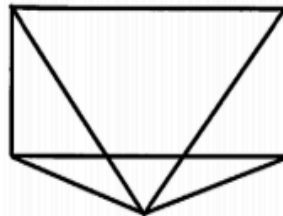
Directions: Place your answer to each question below in the answer column.

1) Find two numbers that multiply to 36 and add to 15. 1) _____

2) What number would you subtract from 188 so that the answer is the same as the number you subtracted? 2) _____

3) Mrs. Sanders cut 6 apples into quarters. Using all the pieces, each child received 3 pieces of apple. How many children were at the party? 3) _____

4) How many triangles are there in the figure at the right?



4) _____

5) How many digits does it take to write all the numbers from 1 through 1499? 5) _____

6) The difference between two positive numbers is 15. The sum of the two numbers is 29. The smaller of the two numbers is _____. 6) _____

NAME _____

PYTHAGOREAN DIVISION

MEET 3

JANUARY 5, 2017

GRADE 4

30 MINUTES

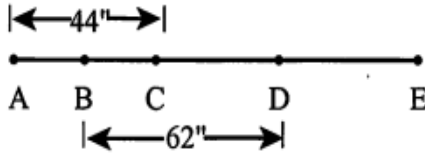
ANSWER COLUMN

Directions: Place your answer to each question below in the answer column.

1) $a \Delta b$ means $a \times b - b$. For example $6 \Delta 5 = 6 \times 5 - 5 = 30 - 5 = 25$. If $b = 12$ and $a \Delta b = 48$, what is the value of a ? 1) _____

2) If $\frac{1}{2}$ lb. of candy costs \$2.60, then 2 oz. of that candy would cost \$____. (16 oz = 1 lb.) 2) _____

3) In the diagram at the right, Point B is the mid-point of line segment \overline{AC} and Point D is the mid-point of line segment \overline{CE} . If $AC = 44''$ and $BD = 62''$, then line segment $AE =$ _____". 3) _____



4) Today Mr. Burke is 32 years old. In 4 years he will be 4 times as old as his daughter will be then. How old will his daughter be 10 years from now? 4) _____

5) Angelina is making a necklace by stringing beads. She strings beads in the following order: red, orange, yellow, green, blue and then she starts with red again going in the same order. Her necklace starts with a red bead and ends with a yellow bead. Her necklace could contain exactly _____ beads.
a) 143 b) 149 c) 157 d) 161 e) 165 5) _____

6) In the subtraction problem at the right, different letters represent different digits. The same letter represents the same digit each time it appears. Find the digit w represents. 6) _____

