

Welcome to 6th grade at DFA!

This summer work is meant to help ensure that your skills from 5th grade math are sharp and you are ready to start the school year. In addition to the work in this packet, there are a few other items I would like to emphasize in order to ensure your success this school year.

- Please make sure that you know your math facts and are practicing them over the summer. The following websites are great resources for practice.
  - <https://home.xtramath.org/>
  - <https://www.factmonster.com/math/flashcards>
  - <https://www.mathfactlab.com/>
- Please make sure that you show and organize ALL of your work in your summer packet.
  - Showing and organizing work is an essential part of success in 6th grade math. Getting in this habit early will help you tremendously as the school year progresses.
  - All work **MUST** be shown in order to receive credit for summer work.
- In addition to the work in this packet, Khan Academy is a great tool to use for further review and preparation. Free accounts can be created at [www.khanacademy.org](http://www.khanacademy.org)

**Find each sum or difference.**

1.  $36.12 + 5.793$

4.  $42.75 - 26.36$

7.  $5.002 - 4.3$

2.  $8.9 + 2.14 + 7.1$

5.  $53.86 - 16.47$

8.  $15.26 + 13.29 + 38.96$

3.  $3.6 + 5.27 + 8.9$

6.  $56.89 - 48.91$

9.  $46.21 + 53.942$

**Find each product or quotient.**

1.  $0.91 \times 2.7$

4.  $12.6 \div 2.1$

7.  $2.33(3.56)$

2.  $4.6(3.9)$

5.  $36.78 \div 2.4$

8.  $12.15 \times 19$

3.  $17.3 \cdot 15.23$

6.  $\frac{58.5}{10.4}$

9.  $8.7 \times 0.45$

**Find each sum or difference.**

**1.**  $\frac{7}{8} + \frac{3}{4}$

**5.**  $\frac{7}{12} + \frac{5}{16}$

**9.**  $2\frac{13}{35} - 1\frac{5}{14}$

**2.**  $\frac{15}{24} - \frac{10}{27}$

**6.**  $\frac{29}{8} + \frac{9}{7}$

**10.**  $\frac{3}{7} + \frac{2}{5}$

**3.**  $\frac{11}{4} + \frac{23}{18}$

**7.**  $\frac{11}{12} + \frac{17}{18}$

**11.**  $1\frac{1}{4} + \frac{3}{8}$

**4.**  $\frac{7}{8} - \frac{3}{4}$

**8.**  $\frac{16}{27} - \frac{5}{24}$

**12.**  $\frac{2}{3} + \frac{1}{21} - \frac{2}{7}$

**Find each product.**

**1.**  $4\frac{1}{2} \times \frac{2}{3}$

**5.**  $4\frac{3}{5} \times 15$

**9.**  $2\frac{1}{6} \times 1\frac{1}{2}$

**2.**  $\frac{10}{11} \times 1\frac{7}{15}$

**6.**  $7\frac{9}{10} \times 1\frac{1}{4}$

**10.**  $34 \times 2\frac{3}{17}$

**3.**  $9\frac{7}{8} \times \frac{4}{5}$

**7.**  $6 \times 1\frac{1}{9}$

**11.**  $18 \times 1\frac{3}{7} \times \frac{4}{15}$

**4.**  $3\frac{1}{5} \times 1\frac{1}{4}$

**8.**  $3\frac{3}{8} \times 2\frac{2}{9}$

**12.**  $3\frac{1}{5} \times 1\frac{5}{6} \times \frac{3}{8}$

## **Word Problems**

- 1. Callie used 8.5 feet of blue fabric and 12.75 feet of red fabric to make a banner for a parade. How many feet of fabric did she use to make the banner?**
- 2. Rahul's puppy weighed 34.9 kilograms at the end of February. It weighed 46.4 kilograms at the end of March. Write an equation that models how to find how many kilograms Rahul's puppy grew.**
- 3. Mr. Johnson spent \$51.94 at the mall yesterday. He paid \$28.19 for a sweater and \$7.86 for lunch. If he spent the rest of his money on books, how much did Mr. Johnson pay for the books?**
- 4. Stella boiled 3.5 cups of water in a kettle. She then used 0.85 cup of the water to make tea. How many cups of water were left in the kettle?**

## **Word Problems**

- 5. According to her reading log, Alicia read for 26.25 hours in January and for 27.9 hours in February. How many hours did she read during these two months?**
- 6. Bryce has  $3\frac{1}{2}$  cups of flour. He uses  $2\frac{1}{3}$  cups to make a pizza crust. If he needs 2 cups of flour to make a cake, does Bryce have enough flour left to also make a cake?**
- 7. A gardener planted a bush that measured  $1\frac{7}{10}$  feet tall. It grew  $\frac{2}{5}$  foot in a month. How many feet tall was the bush by the end of the month?**
- 8. After painting his room, Shawn had  $\frac{7}{8}$  quart of blue paint and  $\frac{3}{5}$  quart of white paint that remained. Estimate the total amount of paint in quarts that remained.**
- 9. Aidan spent  $\frac{1}{2}$  hour each day practicing basketball. He practiced 5 days this week. How many hours did Aidan practice this week?**