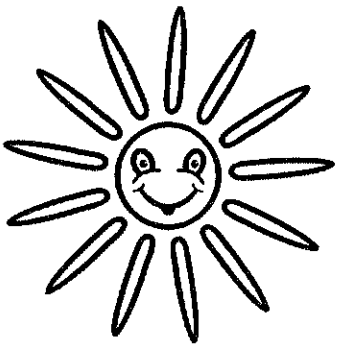
# Grade 6



# Summer Math 2024

Name: _____

# Adding large numbers in columns (6 addends)

Grade 5 Addition Worksheet

Find the sum.

1.
$$\begin{array}{r} 419 \\ 96{,}047{,}592 \\ 851{,}903 \\ 1{,}547{,}123 \\ 27{,}814 \\ +\ 607{,}059 \\ \hline \\ \end{array}$$

2.
$$\begin{array}{r} 783 \\ 87 \\ 35{,}394{,}723 \\ 307{,}616 \\ 21{,}156{,}531 \\ +\ 946{,}909 \\ \hline \\ \end{array}$$

3.
$$\begin{array}{r} 74{,}298 \\ 93{,}381{,}557 \\ 43{,}673{,}780 \\ 445 \\ 2{,}378{,}754 \\ +\ 626 \\ \hline \\ \end{array}$$

4.
$$\begin{array}{r} 97{,}824 \\ 4{,}169 \\ 2{,}019{,}792 \\ 90 \\ 74{,}322{,}265 \\ +\ 7{,}345 \\ \hline \\ \end{array}$$

5.
$$\begin{array}{r} 60 \\ 79{,}336 \\ 162 \\ 2{,}047 \\ 968{,}478 \\ +\ 88{,}766 \\ \hline \\ \end{array}$$

6.
$$\begin{array}{r} 92{,}174{,}839 \\ 17 \\ 27{,}042{,}949 \\ 1{,}481{,}659 \\ 529{,}476 \\ +\ 9{,}894 \\ \hline \\ \end{array}$$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# Subtracting large numbers in columns

Grade 5 Subtraction Worksheet

Find the difference.

1. 57,644,196
   - 49,732,152

2. 858,074
   - 674,720

3. 7,833,285
   - 850,909

4. 22,647
   - 17,906

5. 6,134,175
   - 624,228

6. 94,101,219
   - 39,009,017

7. 334,084
   - 81,100

8. 95,561,655
   - 64,142

9. 81,835,443
   - 4,916,527

10. 26,031,139
    - 81,399


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# Adding decimals in columns

Grade 5 Decimals Worksheet

Find the sum.

1. 6.048 + 8.854 = _____

2. 35.38 + 59.94 = _____

3. 81.88 + 81.66 = _____

4. 31.01 + 46.60 = _____

5. 32.91 + 34.08 = _____

6. 14.40 + 82.25 = _____

7. 66.00 + 11.86 = _____

8. 1.040 + 2.465 = _____

9. 61.29 + 71.24 = _____

10. 4.461 + 2.311 = _____

11. 93.88 + 77.49 = _____

12. 8.763 + 2.832 = _____

13. 2.902 + 4.633 = _____

14. 2.400 + 8.391 = _____

15. 7.518 + 6.213 = _____


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# Subtracting decimals in columns

Grade 5 Fractions Worksheet

Find the difference.

1. 0.865 − 0.494 = _____

2. 7.55 − 5.70 = _____

3. 0.975 − 0.742 = _____

4. 8.41 − 0.20 = _____

5. 0.899 − 0.110 = _____

6. 0.856 − 0.585 = _____

7. 2.07 − 1.22 = _____

8. 0.996 − 0.973 = _____

9. 0.825 − 0.062 = _____

10. 5.26 − 3.04 = _____

11. 0.737 − 0.285 = _____

12. 0.350 − 0.028 = _____

13. 0.347 − 0.265 = _____

14. 3.76 − 0.53 = _____

15. 0.481 − 0.448 = _____


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# Round numbers 0-1,000,000 to the nearest 1,000

Grade 5 Rounding Worksheet

Example: 954,689 rounded to the nearest 1,000 is 955,000

Round to the nearest thousand.

1. 777,973 = _____
2. 18,591 = _____
3. 3,383 = _____
4. 319,771 = _____
5. 9,299 = _____
6. 219,967 = _____
7. 115,261 = _____
8. 493,066 = _____
9. 166,914 = _____
10. 9,561 = _____
11. 948,324 = _____
12. 71,786 = _____
13. 6,078 = _____
14. 1,005 = _____
15. 46,673 = _____
16. 2,443 = _____
17. 887,510 = _____
18. 24,248 = _____
19. 553,681 = _____
20. 29,686 = _____
21. 679,398 = _____


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# Mixed rounding: round numbers to the underlined digit

Grade 5 Rounding Worksheet

Example : 54,689 rounded to the nearest 1,000 is 55,000

Round to the accuracy of the underlined digit.

1. 4,7<u>9</u>0 = _____
2. <u>8</u>,210 = _____
3. <u>1</u>,233 = _____
4. 88,<u>7</u>18 = _____
5. <u>9</u>,236 = _____
6. 63,<u>5</u>00 = _____
7. <u>3</u>7,627 = _____
8. 7,<u>0</u>57 = _____
9. 5,<u>9</u>54 = _____
10. 4<u>2</u>,004 = _____
11. 5<u>6</u>,823 = _____
12. <u>6</u>4,197 = _____
13. 58,<u>1</u>73 = _____
14. <u>6</u>,141 = _____
15. 3,6<u>5</u>2 = _____
16. 23,<u>3</u>69 = _____
17. 72,<u>2</u>13 = _____
18. 1,<u>0</u>36 = _____
19. 5,<u>3</u>70 = _____
20. 12,<u>0</u>18 = _____
21. <u>6</u>8,720 = _____


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# Mental math: multiply 1 digit by 3 digit

Grade 5 Multiplication Worksheet

Find the product.

1. $9 \times 724 =$ _____
2. $5 \times 280 =$ _____
3. $4 \times 471 =$ _____
4. $4 \times 413 =$ _____
5. $8 \times 223 =$ _____
6. $2 \times 186 =$ _____
7. $4 \times 563 =$ _____
8. $2 \times 406 =$ _____
9. $5 \times 162 =$ _____
10. $3 \times 723 =$ _____
11. $9 \times 853 =$ _____
12. $6 \times 185 =$ _____
13. $8 \times 366 =$ _____
14. $6 \times 766 =$ _____
15. $4 \times 226 =$ _____
16. $4 \times 662 =$ _____
17. $6 \times 270 =$ _____
18. $4 \times 702 =$ _____
19. $7 \times 645 =$ _____
20. $2 \times 573 =$ _____


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# Mixed operations word problems

Grade 5 Word Problems Worksheet

*Read and answer each question:*

During a normal day, there are 280 planes taking off from the airport, but the airport is a lot busier during Christmas. During the Christmas holidays, about 336 planes take off every day from the airport.

1. During the Christmas holidays, the airport opens 12 hours during each day, how many planes take off from this airport in each hour?

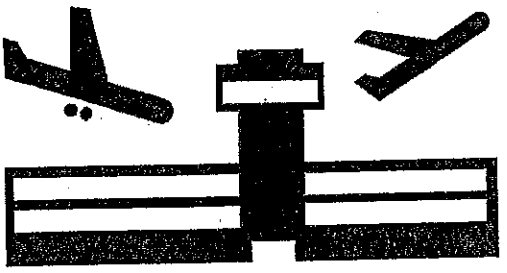
2. In average, each plane takes 240 passengers and 12 tons of cargo. How many passengers depart from the airport every hour during the Christmas holidays?

3. Compared with a normal day, how many more passengers depart from the airport in a day during the Christmas holidays?

4. During a normal day, there are 782 passengers in average that are late for their plane each day. However, during the Christmas holidays, there are 1,835 passengers that are late for their planes each day which caused delays of 14 planes. How many more passengers are late for their planes in each day during the Christmas holidays?

5. The airport administration did a study and found that an additional 5 minutes of delay in the overall operation of the airport is caused for every 32 passengers that are late for their flights. What is the delay in the overall operation if there are 832 passengers late for their flights?

6. Write an equation using "x" and then solve the equation.
On the New Year Eve, there were 7,580 tons of cargo loaded in the morning. In the afternoon, there were x tons of cargos. The total weight of cargos loaded on the day weighed 12,997 tons.

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# Multiplying decimals in columns

Grade 5 Decimals Worksheet

Find the product.

1. $\begin{array}{r} 76.2 \\ \times\ 0.41 \\ \hline \\ \hline \end{array}$

2. $\begin{array}{r} 4.29 \\ \times\ 7.3 \\ \hline \\ \hline \end{array}$

3. $\begin{array}{r} 34.4 \\ \times\ 0.02 \\ \hline \\ \hline \end{array}$

4. $\begin{array}{r} 4.56 \\ \times\ 5.6 \\ \hline \\ \hline \end{array}$

5. $\begin{array}{r} 6.86 \\ \times\ 6.9 \\ \hline \\ \hline \end{array}$

6. $\begin{array}{r} 94.2 \\ \times\ 0.53 \\ \hline \\ \hline \end{array}$


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# Multiplying decimals in columns

Grade 5 Decimals Worksheet

Find the product.

1. $\begin{array}{r} 76.2 \\ \times\ 0.41 \\ \hline \\ \hline \end{array}$

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5. $\begin{array}{r} 6.86 \\ \times\ 6.9 \\ \hline \\ \hline \end{array}$

6. $\begin{array}{r} 94.2 \\ \times\ 0.53 \\ \hline \\ \hline \end{array}$


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# Long division with decimals

Grade 5 Decimals Worksheet

Find the quotient. Round to 3 digits if necessary.

1. $0.7\overline{)792}$

2. $0.03\overline{)0.35}$

3. $0.5\overline{)63}$

4. $0.05\overline{)0.20}$

5. $0.06\overline{)62}$

6. $0.03\overline{)77.4}$

7. $0.7\overline{)4.4}$

8. $0.4\overline{)5.1}$

9. $0.08\overline{)50}$


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# Decimals word problems

Grade 5 Word Problems Worksheets

*Read and answer each question:*

Ashley is making cookies for her office's Christmas party.

1. Each batch of cookies mix need 0.4 cups of sugar and each batch can make 16 cookies. If Ashley is making 4 batches of cookies, how much sugar does she need?

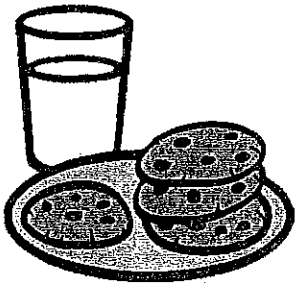
2. Ashley found 2 boxes of sugar in the kitchen. The green box says 1.26 kg and the red box says 1.026 kg. Which box contains more sugar?

3. Ashley measured 1.43 cups of sugar. How much more sugar does she need?

4. She has 2 bags of flour. The smaller bag contains 0.75 kg of flour and the bigger bag has 1.14 kg more flour. How much flour does she have in total?

5. After she finished making the cookies, she has 0.945 kg of flour left. How much flour did she use?

6. Each batch of cookies is 8.9 oz. What is the weight of 2.5 batches of cookies?

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# Adding mixed numbers (unlike denominators)

Grade 5 Fractions Worksheet

Find the sum.

1. $3\frac{1}{4} + 3\frac{5}{8} =$ _____

2. $9\frac{9}{10} + 2\frac{3}{5} =$ _____

3. $3\frac{5}{11} + 7\frac{2}{3} =$ _____

4. $5\frac{2}{8} + 2\frac{4}{10} =$ _____

5. $8\frac{7}{9} + 5\frac{9}{11} =$ _____

6. $6\frac{2}{7} + 7\frac{1}{2} =$ _____

7. $5\frac{1}{2} + 8\frac{3}{4} =$ _____

8. $10\frac{2}{3} + 7\frac{1}{7} =$ _____

9. $10\frac{8}{10} + 9\frac{7}{12} =$ _____

10. $3\frac{7}{8} + 3\frac{1}{3} =$ _____

11. $4\frac{3}{7} + 6\frac{1}{5} =$ _____

12. $1\frac{4}{6} + 9\frac{3}{8} =$ _____

13. $4\frac{8}{10} + 5\frac{2}{6} =$ _____

14. $3\frac{3}{9} + 7\frac{6}{11} =$ _____


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# Order of operations

Grade 5 PEMDAS Worksheet

*The order of operations:*
1. *Parentheses ()*
2. *Exponents $5^2$*
3. *Multiplication × or Division ÷*
4. *Addition + or Subtraction –*

Solve the following using PEMDAS

1. $3 \times 9 + 7$

2. $12 + 36 \div 4$

3. $9 \div 3 + 4 \times 6$

4. $2 \times 11 - 12 \div 2$

5. $8 \times 18 \div 4 + 15$

6. $(67 - 18) \div 7 \times 3$

7. $5^2 - 8$

8. $2^3 \times 3^2$

9. $4^2 \times (8 - 3)$

10. $(7 \times 8 - 4) \div (6 - 2)$


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# Fraction word problems

Grade 5 Word Problems Worksheets

*Read and answer each question:*

An aquarium has exhibits that feature different marine animals.

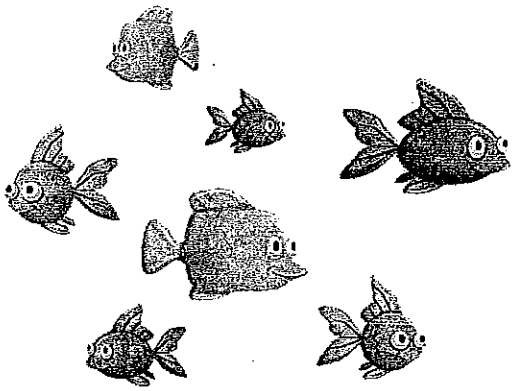
1. $\frac{5}{8}$ of the staff are male. $\frac{5}{12}$ of the staff works part time at the aquarium. What is the fraction of the staff being female?

2. The sharks are fed three times a day. During the morning feeding, $\frac{2}{15}$ tons of fish is fed. During the afternoon feeding, the weight of fish fed will be $\frac{1}{15}$ ton more than the fish fed during the morning. If the total weight of fish fed in a day is $\frac{1}{2}$ ton, how much is fed during the feeding at night?

3. A baby otter was born $\frac{3}{4}$ of a month early. At birth, its weight was $\frac{7}{8}$ kilograms, which is $\frac{9}{10}$ kilogram less than the average weight of newborn otter in the aquarium. What is the average weight of newborn otter?

4. The penguin nursery is open two times a day: $\frac{2}{3}$ hour at noon and $\frac{5}{12}$ hour in the afternoon. How much time is the penguin nursery open every day?

5. Two kinds of fish can be found in a small tank that is $5\frac{1}{7}$ feet long. A blue fish is $\frac{2}{15}$ foot long and an orange fish is $\frac{7}{10}$ foot long. How much longer is the orange fish?



6. An octopus weighed $\frac{5}{6}$ kilogram. After two weeks, its weight was increased by $\frac{3}{10}$ kilogram. But afterwards, it lost $\frac{1}{5}$ kilogram in weight as it was sick. What is its current weight?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# Subtracting mixed numbers (unlike denominators)

Grade 5 Fractions Worksheet

Find the difference.

1. $16\frac{3}{9} - 10\frac{2}{5} =$ _____

2. $7\frac{5}{12} - 2\frac{1}{2} =$ _____

3. $8\frac{9}{10} - 3\frac{2}{3} =$ _____

4. $19\frac{2}{3} - 11\frac{5}{8} =$ _____

5. $13\frac{1}{8} - 12\frac{10}{12} =$ _____

6. $18\frac{1}{2} - 17\frac{2}{8} =$ _____

7. $14\frac{4}{10} - 13\frac{1}{3} =$ _____

8. $19\frac{7}{12} - 19\frac{1}{5} =$ _____

9. $20\frac{3}{4} - 18\frac{2}{3} =$ _____

10. $19\frac{7}{10} - 13\frac{4}{10} =$ _____

11. $17\frac{5}{6} - 1\frac{3}{5} =$ _____

12. $9\frac{1}{5} - 5\frac{4}{6} =$ _____


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