

**Summer Math Packet for
Students Entering
Course 2**

**PLEASE ONLY
COMPLETE THE
EVEN NUMBERED
PROBLEMS**

Name _____

Place Value

Write the place and the value for each underlined digit.

Use the place value chart to help you.

Billions	Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths	Ten-Thousandths
1,000,000,000	100,000,000	10,000,000	1,000,000	100,000	10,000	1,000	100	10	1	0.1	0.01	0.001	0.0001
10^9	10^8	10^7	10^6	10^5	10^4	10^3	10^2	10^1	10^0	10^{-1}	10^{-2}	10^{-3}	10^{-4}

	Place	Value
1. 2,65 <u>7</u> ,009		
2. 347. 1 <u>5</u>		
3. <u>4</u> 7,689,290,019		
4. 92,003, <u>2</u> 56		
5. 1, <u>3</u> 56		
6. <u>1</u> 8,908,450,001,002		
7. 23,10 <u>3</u> ,103,103		
8. 0.003 <u>5</u> 6		
9. 1, <u>6</u> 10,002,134		
10. 5 <u>6</u> 7.5		
11. <u>9</u> 00,398,563,443		
12. 56, <u>4</u> 56,754		
13. 1.009 <u>7</u> 65		
14. <u>2</u> 5,002,234		
15. 89 <u>1</u> 3		
16. 0.00 <u>9</u>		
17. <u>3</u> 3,009,697,400		
18. 86,79 <u>8</u> ,492,037		

Name _____

Compare and Order Whole Numbers

Remember:

< means “is less than”

> means “is greater than”

Use < or > to compare the numbers.

1. 876,234 ○ 876,204

2. 198,567 ○ 1,098,567

3. 1,009,004 ○ 1,009,104

4. 8,563,712 ○ 8,563,312

5. 765 ○ 665

6. 35,287,450 ○ 35,487,450

7. 54,178,002 ○ 4,178,002

8. 7657 ○ 7650

9. 760,397 ○ 761,385

Use place value to order the numbers from least to greatest.

10. 56,851; 58,851; 56,850; 56,857

11. 4003; 4001; 4102; 4007

12. 2,298,209; 298,209; 2,289,209; 2,298,200

13. 1,509,810; 509,108; 1,509,880; 1,508,909

14. 6,784,569; 6,789,559; 6,884,659; 6,084,059

Use place value to order the numbers from greatest to least.

15. 12,567; 12,507; 10,576; 12,577

16. 128; 108; 281; 812

17. 198,261; 198,761; 198,126; 196,989

18. 868,332; 886,333; 896,235; 869,123

19. 2,374,008; 2,743,018; 2,437,018; 2,744,080

20. 17,486,235; 17,864,205; 17,848,025; 17,884,005

Name _____

Round Whole Numbers and Decimals

Round to the nearest hundred.

1. 5673 2. 934

3. 10,928 4. 9182

5. 15,664 6. 4555 7. 312 8. 9845 9. 7124

Remember:
If the digit to the right of the one you are rounding to is *less than* 5, then the first digit does not change.
If the digit to the right of the one you are rounding to is 5 or *greater*, then round the first digit up.

Round to the nearest thousand.

10. 1786 11. 198,756 12. 3967 13. 27,650 14. 5437

15. 11,099 16. 3,875,508 17. 26,147 18. 8756 19. 1754

Round to the nearest thousandth.

20. 0.0983 21. 1.7865 22. 0.4821 23. 0.00765 24. 4.09876

25. 0.01605 26. 6.16511 27. 0.56477 28. 2.00987 29. 4.4563

30. 0.00812 31. 0.15674 32. 9.00178 33. 0.6574 34. 0.0345

Round to the greatest nonzero place.

35. 0.76198 36. 3.002 37. 4.6574 38. 0.542 39. 5.0023

40. 7.0897 41. 82.01 42. 12.956 43. 1.512 44. 6.8101

Name _____

Compare and Order Decimals

Remember:

Compare and order decimals the same way you compare and order whole numbers.

Use $<$, $>$, or $=$ to compare the decimals.

1. 3.564 ○ 3.556

2. 5.004 ○ 5.014

4. 0.01876 ○ 0.01872

6. 2.984 ○ 2.955

8. 0.3005 ○ 0.299

3. 8.111 ○ 8.117

5. 4.718 ○ 4.717

7. 0.00714 ○ 0.00741

9. 26.65 ○ 26.65

Use place value to order the decimals from least to greatest.

10. 4.098; 4.106; 3.996

11. 0.056; 0.065; 0.055

12. 1.786; 1.780; 1.785

13. 6.109; 6.181; 6.19

14. 3.490; 3.409; 3.41

15. 9.011; 9.002; 9.007

16. 12.12; 12.26; 12.16

17. 0.722; 0.701; 0.677

Use place value to order the decimals from greatest to least.

18. 0.048; 0.0401; 0.08

19. 5.99; 6.05; 6.95

20. 4.775; 4.79; 4.97

21. 40.6; 41.06; 40.66

22. 2.012; 2.015; 2.025

23. 71.107; 70.707; 71.707

24. 9.12; 9.21; 9.2

25. 8.235; 8.204; 8.234

Name _____

Estimate Sums and Differences**Use rounding to estimate the sum.**

$$\begin{array}{r} 1. \quad 6067 \\ \quad 704 \\ +807 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 506 \\ \quad 9 \\ +745 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 14.88 \\ \quad 11.07 \\ +1.99 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 6.04 \\ \quad 1.12 \\ +0.85 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 23 \\ 1098 \\ +41 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 0.64 \\ \quad 1.35 \\ +3.17 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 12.89 \\ \quad 4.06 \\ +8.12 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 39 \\ \quad 67 \\ +211 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 3093 \\ \quad 1887 \\ +1034 \\ \hline \end{array}$$

Use rounding to estimate the difference.

$$\begin{array}{r} 10. \quad 1908 \\ \quad -467 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 17.68 \\ \quad -0.99 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 107.14 \\ \quad -55.3 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 1291 \\ \quad -104 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 87 \\ \quad -22 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 876 \\ \quad -435 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 46.03 \\ \quad -11.01 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 4877 \\ \quad -2037 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 2.856 \\ \quad -0.234 \\ \hline \end{array}$$

Remember:

Round each number to the greatest nonzero place of the least number. Add the rounded numbers.

Remember:

Round each number to the greatest nonzero place of the least number. Subtract the rounded numbers.

Name _____

Use front-end estimation to estimate the sum.

19.
$$\begin{array}{r} 467 \\ 22 \\ +946 \\ \hline \end{array}$$

adjusted estimate:

20.
$$\begin{array}{r} 34.01 \\ 3.88 \\ +18.09 \\ \hline \end{array}$$

adjusted estimate:

22.
$$\begin{array}{r} 17.44 \\ 3.99 \\ +11.23 \\ \hline \end{array}$$

adjusted estimate:

21.
$$\begin{array}{r} 146 \\ 5017 \\ +1203 \\ \hline \end{array}$$

adjusted estimate:

23.
$$\begin{array}{r} 2.5 \\ 0.07 \\ +4.2 \\ \hline \end{array}$$

adjusted estimate:

Remember:

Add the front digits of the numbers with the greatest place value.
Write zeroes for the other digits.
Adjust the addition estimate with the back digits.

Use front-end estimation to estimate the difference.

24.
$$\begin{array}{r} 8456 \\ -389 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 675 \\ -192 \\ \hline \end{array}$$

27.
$$\begin{array}{r} 567 \\ -32 \\ \hline \end{array}$$

29.
$$\begin{array}{r} 4.6 \\ -1.9 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 24.5 \\ -6.8 \\ \hline \end{array}$$

28.
$$\begin{array}{r} 845 \\ -255 \\ \hline \end{array}$$

30.
$$\begin{array}{r} 5643 \\ -678 \\ \hline \end{array}$$

Remember:

Subtract the front digits of the numbers with the greatest place value.
Write zeroes for the other digits.

Name _____

Add and Subtract Whole Numbers and Decimals**Add. Show your work.**

$$\begin{array}{r} 1. \\ 1,379,210 \\ +6,098,003 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \\ 41.28 \\ +70.01 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \\ 5,601,764 \\ +11,987,003 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \\ 104,768 \\ +100,587 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \\ 39.16 \\ +4.94 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \\ 70,011 \\ +20,999 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \\ 6.86 \\ +2.21 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \\ 55,008 \\ +46,711 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \\ 84.001 \\ +12.990 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \\ 212,121 \\ +212,097 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \\ 0.0054 \\ +0.0077 \\ \hline \end{array}$$

Subtract. Show your work.

$$\begin{array}{r} 12. \\ 77,403 \\ -23,011 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \\ 102,006 \\ -11,225 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \\ 23.117 \\ -9.446 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \\ 1.287 \\ -0.365 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \\ 325,250 \\ -15,840 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \\ 24.21 \\ -19.35 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \\ 786 \\ -399 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \\ 716,470 \\ -48,660 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \\ 16.00 \\ -12.24 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \\ 1305 \\ -933 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \\ 1.08 \\ -0.15 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \\ 121,823 \\ -112,733 \\ \hline \end{array}$$

Remember:

Use rounding to estimate before computing. Check to make sure your answer is reasonable.

Name _____

Multiplication Patterns

Multiply each whole number by a power or multiple of 10.

$$\begin{aligned} 1. \quad & 25 \times 2 = \\ & 25 \times 20 = \\ & 25 \times 200 = \\ & 25 \times 2000 = \end{aligned}$$

$$\begin{aligned} 2. \quad & 4 \times 12 = \\ & 40 \times 12 = \\ & 400 \times 12 = \\ & 4000 \times 12 = \end{aligned}$$

$$\begin{aligned} 3. \quad & 1 \times 7 = \\ & 10 \times 70 = \\ & 100 \times 700 = \\ & 1000 \times 7000 = \end{aligned}$$

$$\begin{aligned} 4. \quad & 32 \times 3 = \\ & 32 \times 30 = \\ & 32 \times 300 = \\ & 32 \times 3000 = \end{aligned}$$

$$\begin{aligned} 5. \quad & 11 \times 5 = \\ & 110 \times 50 = \\ & 1100 \times 500 = \\ & 11000 \times 5000 = \end{aligned}$$

$$\begin{aligned} 6. \quad & 9 \times 4 = \\ & 9 \times 40 = \\ & 9 \times 400 = \\ & 9 \times 4000 = \end{aligned}$$

$$\begin{aligned} 7. \quad & 8 \times 14 = \\ & 80 \times 14 = \\ & 800 \times 14 = \\ & 8000 \times 14 = \end{aligned}$$

$$\begin{aligned} 8. \quad & 92 \times 6 = \\ & 92 \times 60 = \\ & 92 \times 600 = \\ & 92 \times 6000 = \end{aligned}$$

$$\begin{aligned} 9. \quad & 8 \times 7 = \\ & 80 \times 70 = \\ & 800 \times 700 = \\ & 8000 \times 7000 = \end{aligned}$$

$$\begin{aligned} 10. \quad & 3 \times 9 = \\ & 3 \times 90 = \\ & 3 \times 900 = \\ & 3 \times 9000 = \end{aligned}$$

$$\begin{aligned} 11. \quad & 45 \times 1 = \\ & 45 \times 10 = \\ & 45 \times 100 = \\ & 45 \times 1000 = \end{aligned}$$

Multiply each decimal by a power of 10.

12. $10^2 \times 0.15 =$

13. $10^5 \times 0.006 =$

14. $10^3 \times 2.001 =$

15. $10^1 \times 0.018 =$

16. $10^7 \times 1.13 =$

17. $10^4 \times 0.002 =$

18. $10^6 \times 3.07 =$

19. $10^1 \times 0.00046 =$

20. $10^8 \times 2.19 =$

21. $10^9 \times 0.2 =$

Remember:

Multiply the nonzero digits in the factors.

Write one zero to the right of the product for each zero in the factors.

Remember:

Count the number of zeroes in the power of 10.

Move the decimal point to the right one place for each zero.

Write as many zeroes in the product as needed to place the decimal point correctly.

Name _____

Division Patterns

Divide each whole number by a power or multiple of 10.

$$\begin{aligned} 1. \quad & 45,000 \div 9 = \\ & 45,000 \div 90 = \\ & 45,000 \div 900 = \\ & 45,000 \div 9000 = \end{aligned}$$

$$\begin{aligned} 2. \quad & 80,000 \div 4 = \\ & 80,000 \div 40 = \\ & 80,000 \div 400 = \\ & 80,000 \div 4000 = \end{aligned}$$

$$\begin{aligned} 3. \quad & 15,000 \div 5 = \\ & 15,000 \div 50 = \\ & 15,000 \div 500 = \\ & 15,000 \div 5000 = \end{aligned}$$

$$\begin{aligned} 4. \quad & 56,000 \div 8 = \\ & 56,000 \div 80 = \\ & 56,000 \div 800 = \\ & 56,000 \div 8000 = \end{aligned}$$

$$\begin{aligned} 5. \quad & 9000 \div 9 = \\ & 9000 \div 90 = \\ & 9000 \div 900 = \\ & 9000 \div 9000 = \end{aligned}$$

$$\begin{aligned} 6. \quad & 14,000 \div 2 = \\ & 14,000 \div 20 = \\ & 14,000 \div 200 = \\ & 14,000 \div 2000 = \end{aligned}$$

$$\begin{aligned} 7. \quad & 36,000 \div 6 = \\ & 36,000 \div 60 = \\ & 36,000 \div 600 = \\ & 36,000 \div 6000 = \end{aligned}$$

$$\begin{aligned} 8. \quad & 21,000 \div 3 = \\ & 21,000 \div 30 = \\ & 21,000 \div 300 = \\ & 21,000 \div 3000 = \end{aligned}$$

$$\begin{aligned} 9. \quad & 6000 \div 1 = \\ & 6000 \div 10 = \\ & 6000 \div 100 = \\ & 6000 \div 1000 = \end{aligned}$$

$$\begin{aligned} 10. \quad & 49,000 \div 7 = \\ & 49,000 \div 70 = \\ & 49,000 \div 700 = \\ & 49,000 \div 7000 = \end{aligned}$$

$$\begin{aligned} 11. \quad & 36,000 \div 4 = \\ & 36,000 \div 40 = \\ & 36,000 \div 400 = \\ & 36,000 \div 4000 = \end{aligned}$$

Divide each decimal by a power of 10.

$$12. \quad 32.1 \div 10^4 =$$

$$13. \quad 1.24 \div 10^1 =$$

$$14. \quad 25.7 \div 10^5 =$$

$$15. \quad 102.5 \div 10^3 =$$

$$16. \quad 1.14 \div 10^2 =$$

$$17. \quad 43.9 \div 10^7 =$$

$$18. \quad 2.3 \div 10^9 =$$

$$19. \quad 7.2 \div 10^8 =$$

$$20. \quad 610.1 \div 10^6 =$$

$$21. \quad 434.8 \div 10^1 =$$

Remember:

Divide the nonzero digits.

To determine the number of zeroes in the quotient, subtract the number of zeroes in the divisor from the number of zeroes in the dividend.

Remember:

Count the number of zeroes in the divisor.

Move the decimal point to the left one place in the dividend for each zero in the divisor.

Write zeroes in the quotient as needed.

Name _____

Estimate Products

Use rounding to estimate each product.

Remember:

Round each factor to its greatest place.

Multiply the rounded factors.

1. 367×103

2. 0.7×5.8

3. 11.5×9.7

4. 761×1009

5. 93×116

6. 16×31

7. 1003×1732

8. 78×34

9. 87.5×4.1

10. 312×2654

11. 5.4×121.9

12. 1.7×0.6

13. 17×18

14. 4897×310

15. 19.2×211.5

16. 833×4117

17. 64×29

18. 999×923

19. 8.4×17.2

20. 3917×18

21. 552×327

22. 1001×3007

23. 12.2×10.7

24. 77×11

25. 3852×390

26. 3.3×195.3

27. 228×558

28. 11.3×11.3

29. 703×47

30. 74×32

31. 110×4872

32. 3645×66

33. 29.0×0.78

34. 221×801

35. 75×110

36. 94.2×1.8

37. 812×55

38. 576×1987

Name _____

Estimate Quotients

Use compatible numbers to estimate each quotient.

Remember:

Compatible numbers are numbers that are easy to compute with.

1. $3190 \div 49$

2. $14.3 \div 6.8$

3. $48.23 \div 6.25$

4. $528 \div 16$

5. $97 \div 8$

6. $221 \div 37$

7. $4104 \div 812$

8. $56 \div 31$

9. $77.2 \div 10.6$

10. $935 \div 33$

11. $6.1 \div 1.8$

12. $19.5 \div 3.7$

13. $19 \div 17$

14. $7354 \div 491$

15. $72.2 \div 8.5$

16. $973 \div 98$

17. $63.8 \div 4.3$

18. $999 \div 525$

19. $44.8 \div 8.7$

20. $7221 \div 234$

21. $977 \div 189$

22. $6230 \div 22$

23. $12.1 \div 2.5$

24. $47 \div 14$

25. $3851 \div 380$

26. $21.3 \div 7.4$

27. $567 \div 198$

28. $33.8 \div 2.3$

29. $16.7 \div 4.3$

30. $89 \div 86$

31. $11.0 \div 5.1$

32. $8123 \div 79$

33. $62.4 \div 0.22$

34. $554 \div 9$

35. $75 \div 39$

36. $56.1 \div 8.1$

37. $0.265 \div 0.27$

38. $0.587 \div 0.197$

Name _____

Multiply Whole Numbers**Multiply. Show your work.**

1.
$$\begin{array}{r} 61 \\ \times 12 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 17 \\ \times 191 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 21 \\ \times 205 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 96 \\ \times 11 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 71 \\ \times 21 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 18 \\ \times 310 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 85 \\ \times 15 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 54 \\ \times 43 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 75 \\ \times 414 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 38 \\ \times 651 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 49 \\ \times 704 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 61 \\ \times 30 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 93 \\ \times 189 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 25 \\ \times 25 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 41 \\ \times 213 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 55 \\ \times 15 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 86 \\ \times 62 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 99 \\ \times 111 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 38 \\ \times 31 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 72 \\ \times 612 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 47 \\ \times 118 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 81 \\ \times 90 \\ \hline \end{array}$$

Remember:

To multiply by a two-digit number, multiply by ones, then by tens. Add the partial products.

To multiply by a three-digit number, multiply by ones, then by tens, then by hundreds. Add the partial products.

Name _____

Divide Whole Numbers

Divide. Show your work.

1. $567 \div 3$

Remember:

To divide by a 1-digit number, use short division. Divide to find the first digit of the quotient; multiply and subtract mentally; and write each remainder in front of the next digit in the dividend. Repeat the steps until the division is completed.

To divide by a 2- or 3-digit number, decide where to begin the quotient. If there are not enough hundreds, the quotient begins in the tens place. Divide the tens and ones.

2. $4579 \div 121$

3. $1952 \div 76$

4. $8054 \div 9$

5. $34,616 \div 623$

6. $572 \div 4$

7. $5329 \div 87$

8. $41,005 \div 125$

9. $443 \div 6$

10. $3911 \div 54$

11. $6781 \div 217$

12. $731 \div 6$

13. $5490 \div 24$

Name _____

Multiply Decimals

Find the product. Show your work.

1.
$$\begin{array}{r} 3.14 \\ \times 12 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 0.406 \\ \times 0.62 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 7.99 \\ \times 0.11 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 0.43 \\ \times 73 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 2.75 \\ \times 2.5 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 0.81 \\ \times 22 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 1.13 \\ \times 0.8 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 2.01 \\ \times 38 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 0.345 \\ \times 1.2 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 92.15 \\ \times 0.33 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 0.346 \\ \times 0.81 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 4.13 \\ \times 10 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 7.1 \\ \times 1.7 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 0.123 \\ \times 25 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 4.01 \\ \times 8.1 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 0.111 \\ \times 3.3 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 0.35 \\ \times 24 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 7.54 \\ \times 0.7 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 6.32 \\ \times 4 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 1.41 \\ \times 55 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 0.60 \\ \times 2.4 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 9.01 \\ \times 5 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 47.13 \\ \times 0.2 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 3.08 \\ \times 1.3 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 0.414 \\ \times 65 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 1.98 \\ \times 45 \\ \hline \end{array}$$

Remember:

Multiply as you would with whole numbers.

Count the number of decimal places in both factors.

Mark off the same number of decimal places in the product.

Name _____

Divide Decimals

Find the quotient. Show your work.

1. $4.32 \div 0.6$

2. $1.56 \div 0.4$

So $4.32 \div 0.6 =$ _____

So $1.56 \div 0.4 =$ _____

3. $55.1 \div 0.25$

4. $3.75 \div 0.3$

5. $0.910 \div 0.7$

So $55.1 \div 0.25 =$ _____

So $3.75 \div 0.3 =$ _____

So $0.910 \div 0.7 =$ _____

6. $7.26 \div 1.2$

7. $0.081 \div 0.09$

8. $16.33 \div 7.1$

So $7.26 \div 1.2 =$ _____

So $0.081 \div 0.09 =$ _____

So $16.33 \div 7.1 =$ _____

9. $6.84 \div 3.8$

10. $42.84 \div 8.4$

11. $99.15 \div 0.3$

So $6.84 \div 3.8 =$ _____

So $42.84 \div 8.4 =$ _____

So $99.15 \div 0.3 =$ _____

Remember:

Move the decimal point in the divisor to form a whole number divisor.

Move the decimal point in the dividend to the right the same number of places.

Write the decimal point in the quotient directly above the decimal point in the dividend.

Divide as you would with whole numbers.

Name _____

Fractions Greater than or Equal to 1

Rename each mixed number as a fraction.

Remember:

Multiply the whole number by the denominator.

Add the product to the numerator.

Write the sum as the numerator and the given denominator as the denominator.

1. $1\frac{1}{3} =$ _____

2. $5\frac{1}{2} =$ _____

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

4. $4\frac{1}{8} =$ _____

5. $2\frac{5}{7} =$ _____

6. $3\frac{4}{5} =$ _____

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

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

9. $5\frac{4}{5} =$ _____

10. $9\frac{1}{3} =$ _____

11. $2\frac{1}{6} =$ _____

12. $6\frac{5}{8} =$ _____

13. $7\frac{1}{4} =$ _____

14. $1\frac{5}{9} =$ _____

15. $2\frac{3}{8} =$ _____

16. $3\frac{5}{6} =$ _____

17. $4\frac{3}{5} =$ _____

18. $5\frac{1}{7} =$ _____

19. $6\frac{1}{3} =$ _____

20. $8\frac{7}{9} =$ _____

21. $7\frac{1}{5} =$ _____

Name _____

Rename each fraction as a mixed number.

22. $\frac{45}{6} =$

23. $\frac{15}{2} =$

24. $\frac{31}{5} =$

25. $\frac{54}{7} =$

26. $\frac{21}{2} =$

27. $\frac{17}{6} =$

28. $\frac{64}{9} =$

29. $\frac{79}{8} =$

30. $\frac{39}{5} =$

31. $\frac{41}{6} =$

32. $\frac{92}{9} =$

33. $\frac{29}{3} =$

34. $\frac{83}{8} =$

35. $\frac{74}{9} =$

36. $\frac{18}{4} =$

37. $\frac{32}{7} =$

38. $\frac{85}{6} =$

Remember:

Divide the numerator by the denominator.
Write the quotient as the whole number part.
If there is a remainder, write it over the denominator and express the fraction in simplest form.

Name _____

Add and Subtract Fractions**Add. Write the sum in simplest form.**

1. $\frac{2}{3} + \frac{1}{4}$

2. $\frac{2}{5} + \frac{5}{6}$

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

4. $\frac{3}{4} + \frac{1}{9}$

5. $\frac{1}{3} + \frac{1}{5}$

6. $\frac{2}{7} + \frac{2}{5}$

7. $\frac{7}{9} + \frac{1}{2}$

8. $\frac{2}{3} + \frac{4}{5}$

9. $\frac{5}{6} + \frac{1}{2}$

10. $\frac{7}{9} + \frac{1}{3}$

11. $\frac{1}{6} + \frac{1}{4}$

12. $\frac{8}{11} + \frac{2}{3}$

13. $\frac{5}{7} + \frac{2}{3}$

14. $\frac{1}{36} + \frac{5}{6}$

Remember:

Find the least common denominator (LCD) of the fractions.

Rename each fraction as an equivalent fraction with the LCD as the denominator.

Add. Express the sum in simplest form.

Name _____

Subtract. Write the difference in simplest form.

15. $\frac{6}{7} - \frac{3}{5}$

16. $\frac{1}{2} - \frac{1}{4}$

Remember:

Find the least common denominator (LCD) of the fractions.

Rename each fraction as an equivalent fraction with the LCD as the denominator.

Subtract. Express the difference in simplest form.

17. $\frac{5}{6} - \frac{2}{5}$

18. $\frac{2}{5} - \frac{1}{3}$

19. $\frac{4}{7} - \frac{2}{6}$

20. $\frac{3}{4} - \frac{2}{5}$

21. $\frac{5}{9} - \frac{2}{5}$

22. $\frac{3}{4} - \frac{5}{7}$

23. $\frac{8}{11} - \frac{3}{7}$

24. $\frac{5}{8} - \frac{2}{5}$

25. $\frac{4}{5} - \frac{1}{3}$

26. $\frac{7}{12} - \frac{1}{6}$

27. $\frac{9}{10} - \frac{1}{5}$

28. $\frac{7}{14} - \frac{3}{7}$

29. $\frac{1}{2} - \frac{1}{9}$

30. $\frac{9}{21} - \frac{1}{3}$

31. $\frac{8}{15} - \frac{1}{2}$

Name _____

Multiply Fractions

Multiply.

1. $\frac{2}{5} \times \frac{1}{2} =$ _____

2. $\frac{4}{7} \times \frac{2}{3} =$ _____

3. $\frac{1}{2} \times \frac{3}{8} =$ _____

4. $\frac{8}{9} \times \frac{1}{4} =$ _____

5. $\frac{1}{6} \times \frac{1}{7} =$ _____

6. $\frac{3}{8} \times \frac{2}{3} =$ _____

7. $\frac{6}{8} \times \frac{1}{4} =$ _____

8. $\frac{4}{10} \times \frac{2}{3} =$ _____

9. $\frac{1}{3} \times \frac{1}{4} =$ _____

10. $\frac{7}{9} \times \frac{4}{7} =$ _____

11. $\frac{1}{2} \times \frac{3}{4} =$ _____

12. $\frac{1}{9} \times \frac{2}{3} =$ _____

13. $\frac{4}{5} \times \frac{1}{6} =$ _____

14. $\frac{2}{8} \times \frac{1}{8} =$ _____

Multiply using the greatest common factor.

15. $\frac{2}{5} \times \frac{15}{16} =$ _____

16. $\frac{5}{8} \times \frac{8}{9} =$ _____

17. $\frac{3}{4} \times \frac{6}{7} =$ _____

18. $\frac{1}{5} \times \frac{20}{21} =$ _____

19. $\frac{9}{11} \times \frac{22}{27} =$ _____

20. $\frac{2}{7} \times \frac{7}{8} =$ _____

21. $\frac{8}{12} \times \frac{6}{7} =$ _____

22. $\frac{4}{9} \times \frac{6}{10} =$ _____

23. $\frac{4}{16} \times \frac{1}{4} =$ _____

24. $\frac{2}{5} \times \frac{5}{8} =$ _____

25. $\frac{3}{7} \times \frac{14}{15} =$ _____

26. $\frac{14}{20} \times \frac{4}{7} =$ _____

27. $\frac{6}{10} \times \frac{5}{6} =$ _____

28. $\frac{4}{5} \times \frac{25}{28} =$ _____

Remember:

Multiply the numerators. Then multiply the denominators.

Write the product in simplest form.

Remember:Divide *any* numerator and denominator by the greatest common factor (GCF).

Multiply the numerators. Then multiply the denominators. The product will be in simplest form.

Name _____

Divide Fractions

Divide.

1. $\frac{4}{9} \div \frac{1}{3} =$

2. $\frac{6}{10} \div \frac{4}{5} =$

3. $\frac{2}{7} \div \frac{2}{3} =$

4. $\frac{5}{8} \div \frac{1}{2} =$

5. $\frac{6}{12} \div \frac{6}{10} =$

6. $\frac{8}{20} \div \frac{2}{4} =$

7. $\frac{5}{9} \div \frac{1}{3} =$

8. $\frac{14}{15} \div \frac{2}{3} =$

9. $\frac{11}{22} \div \frac{1}{2} =$

10. $\frac{2}{3} \div \frac{1}{9} =$

11. $\frac{12}{24} \div \frac{3}{4} =$

12. $\frac{5}{6} \div \frac{1}{4} =$

13. $\frac{9}{10} \div \frac{3}{5} =$

14. $\frac{1}{3} \div \frac{1}{9} =$

Remember:

Multiply by the reciprocal of the divisor.
Simplify using the GCF, where possible.
Then multiply the numerators and the denominators.

Rename the product as a whole or mixed number when needed.

Name _____

Divide.

15. $\frac{16}{18} \div \frac{2}{9} =$

16. $\frac{4}{7} \div \frac{4}{1} =$

17. $\frac{5}{8} \div \frac{1}{12} =$

18. $\frac{1}{10} \div \frac{1}{2} =$

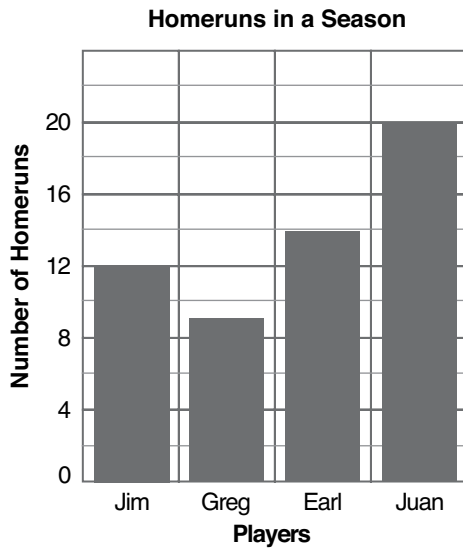
19. $\frac{2}{8} \div \frac{2}{5} =$

20. $\frac{3}{4} \div \frac{1}{6} =$

Name _____

Bar Graphs

Use the bar graph to answer questions 1 – 4



Remember:

A bar graph is used to compare numerical data.

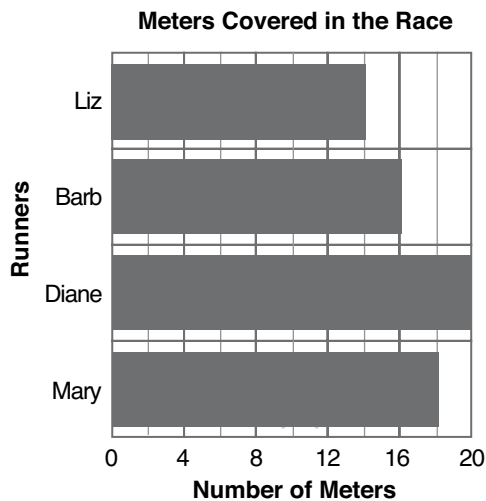
1. Which player hit the least number of home runs?

2. How did the bar graph help you answer question 1?

3. Which player hit the greatest number of homeruns?

4. How did the bar graph help you answer question 3?

Use the bar graph to answer questions 5 – 8



5. Which runner ran the greatest number of meters?

6. How did the bar graph help you answer question 5?

7. Which runner ran the least number of meters?

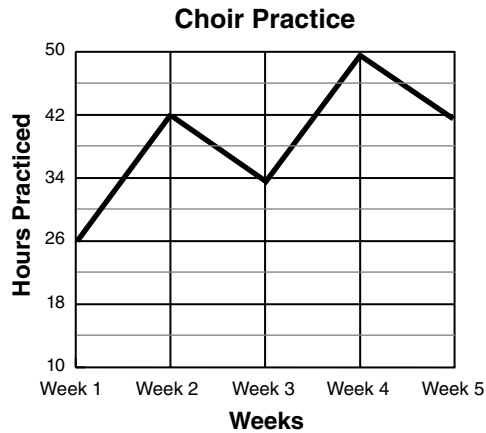
8. How did the bar graph help you answer question 7?

Name _____

Line Graphs

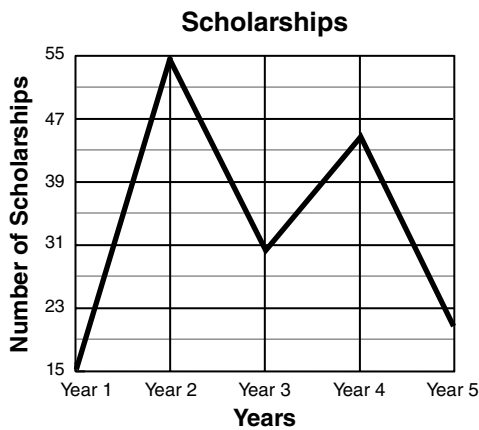
Use the line graph to answer question 1.

Remember:
A line graph is used to show change in data over time.



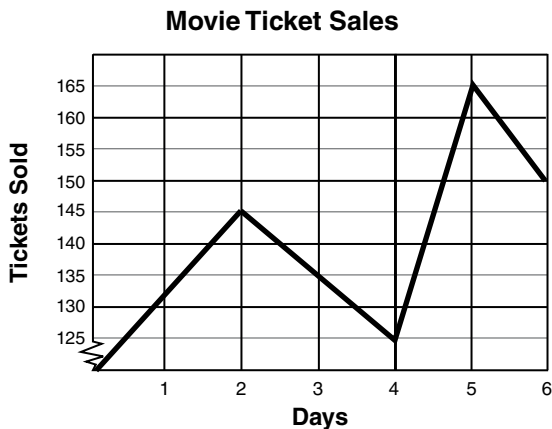
1. What trend does the graph show about the number of hours practiced?

Use the line graph to answer question 2.



2. What trend does the graph show about the number of scholarships given out over a 5 year period?

Use the line graph to answer question 3.



3. What trend does the graph show about the number of movie tickets sold over the 6 day period?

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Name _____

Compute with Units of Measure**Add.**

$$\begin{array}{r} 1. \quad 4 \text{ ft } 2 \text{ in.} \\ +6 \text{ ft } 10 \text{ in.} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 1 \text{ gal } 1 \text{ c} \\ +7 \text{ gal } 3 \text{ c} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 2 \text{ yd } 2 \text{ ft} \\ +4 \text{ yd } 2 \text{ ft} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 8 \text{ ft } 5 \text{ in.} \\ +1 \text{ ft } 9 \text{ in.} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 2 \text{ lb } 9 \text{ oz} \\ +3 \text{ lb } 10 \text{ oz} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 4 \text{ gal } 3 \text{ qt} \\ +2 \text{ gal } 2 \text{ qt} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 3 \text{ yd} \\ +1 \text{ yd } 2 \text{ ft} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 7 \text{ lb } 8 \text{ oz} \\ +2 \text{ lb } 8 \text{ oz} \\ \hline \end{array}$$

Subtract.

$$\begin{array}{r} 9. \quad 6 \text{ lb } 1 \text{ oz} \\ -1 \text{ lb } 5 \text{ oz} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 8 \text{ ft } 7 \text{ in.} \\ -1 \text{ ft } 2 \text{ in.} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 8 \text{ ft } 7 \text{ in.} \\ -2 \text{ ft } 10 \text{ in.} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 15 \text{ gal } 3 \text{ qt} \\ -7 \text{ gal } 1 \text{ qt} \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 7 \text{ yd } 1 \text{ ft} \\ -3 \text{ yd } 2 \text{ ft} \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 12 \text{ lb } 2 \text{ oz} \\ -5 \text{ lb } 9 \text{ oz} \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 3 \text{ lb } 6 \text{ oz} \\ -1 \text{ lb } 7 \text{ oz} \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 6 \text{ ft } 11 \text{ in.} \\ -5 \text{ ft } 9 \text{ in.} \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 4 \text{ lb } 3 \text{ oz} \\ -2 \text{ lb } 6 \text{ oz} \\ \hline \end{array}$$

Multiply.

$$\begin{array}{r} 18. \quad 7 \text{ ft } 5 \text{ in.} \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 2 \text{ pt } 1 \text{ c} \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 4 \text{ yd } 11 \text{ in.} \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 6 \text{ lb } 13 \text{ oz} \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \quad 9 \text{ qt } 3 \text{ pt} \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \quad 1 \text{ gal } 3 \text{ qt} \\ \times \quad 3 \\ \hline \end{array}$$