

Remote Learning Packet

Please submit scans of written work in Google Classroom at the end of the week.

May 4-8, 2020

Course: 7th Grade: Pre-Algebra

Teacher(s): Mrs. Frank leslie.frank@greatheartssirving.org

Mrs. Voltin mary.voltin@greatheartssirving.org

Weekly Plan:

Monday, May 4

- Subtraction Speed Test
- 11-3, The Probability of an Event

Tuesday, May 5

- Multiplication Speed Test
- 11-4, Odds in Favor and Odds Against

Wednesday, May 6

- Division Speed Test
- 11-4, Odds in Favor and Odds Against

Thursday, May 7

- Roots Speed Test
- Self-Test A

Friday, May 8

- Attend office hours
- Catch-up or review the week's work

Statement of Academic Honesty

I affirm that the work completed from the packet is mine and that I completed it independently.

I affirm that, to the best of my knowledge, my child completed this work independently

Student Signature

Parent Signature

Monday, May 4

1. Your speed test for the day will be the subtraction speed test. **Time yourself, and write the time it took you to complete the entire test at the top of the page.** After you have finished the test, use the answer key to check for accuracy. Write your score at the top of the page.
2. Review lesson 11-3, The Probability of an Event, on pages 404-406. Go back and review these links for extra help:

<https://www.khanacademy.org/math/probability/probability-geometry/probability-basics/v/basic-probability>

<https://www.khanacademy.org/math/probability/probability-geometry/probability-basics/v/simple-probability>

3. Mrs. Voltin has made a video to go along with this lesson. Go to Google Classroom to look for the video titled: **Pre-Algebra, 11-3 The Probability of an Event, May 4th.**
4. Your homework assignment for today is:

HW: 11.3 The Probability of an Event, page 407, Written Exercises, #2-28, evens

5. Please do not look at your answer key each day until you have worked every problem. After you complete your homework, compare it to the answer key. Put away your pencil, and USE YOUR RED PEN. Correct any mistakes that you made in red pen.

Tuesday, May 5

1. Your speed test for the day will be multiplication.
2. Read lesson 11-4 Odds in Favor and Odds Against, on pages 409-410. Read it once. Go back and read it again and work the example problems. Do the **Class Exercises** at the bottom of page 410, 1-8, all. For extra help, please look at the following link:

<https://www.youtube.com/watch?v=4bEdAXAMel4>

3. Our textbook really makes this more complicated than it is! Please look at the video from Mrs. Frank, that you will find on Google Classroom, titled: **Pre-Algebra, 11-4 Odds in Favor and Odds Against, May 5th.**
4. Please do not look at your answer key each day until you have worked every problem. After you complete your homework, compare it to the answer key. Put away your pencil, and USE YOUR RED PEN. Correct any mistakes that you made in red pen.

Wednesday, May 6

1. Your speed test for the day will be division.
2. Review lesson 11-4. Review the videos from yesterday's assignment. Your homework assignment for today is HW 11-4, pp. 411, **Written Exercises**, #2-24, evens.
3. Please do not look at your answer key each day until you have worked every problem. After you complete your homework, compare it to the answer key. Put away your pencil, and USE YOUR RED PEN. Correct any mistakes that you made in red pen.

Thursday, May 7

1. Your speed test for the day will be roots. **Challenge: This week, do the whole test!** Remember, you will not be graded on your speed or even your accuracy for speed tests. Do it as quickly as you can and write your time at the top of the page. The idea is to get faster each week and to remember more roots each week!
2. Your assessment this week is **Self-Test A** on page 412. Work all of the problems. No need to correct your answers. You may complete this after office hours on Friday if you need extra help.

Friday, May 8

1. Go to office hours so that I can see your bright, smiling face!
2. Use this day to catch up on any assignments that you have not finished.
3. Submit your work with the following instructions:

Make sure that you use a dark pencil so that we can read your homework. Write the lesson number and day of the week at the top of every page, including back pages or extra pages for each lesson. Write your times on your speed tests! And, most importantly, **scan and submit your lessons in order.** (Monday, Tuesday, Wednesday, Thursday) Thank you!

5	12	11	9	16
<u>- 2</u>	<u>- 4</u>	<u>- 9</u>	<u>- 7</u>	<u>- 8</u>

10	14	14	14	8
<u>- 6</u>	<u>- 5</u>	<u>- 7</u>	<u>- 6</u>	<u>- 3</u>

15	11	12	7	15
<u>- 7</u>	<u>- 4</u>	<u>- 7</u>	<u>- 2</u>	<u>- 6</u>

12	6	10	7	10
<u>- 9</u>	<u>- 3</u>	<u>- 3</u>	<u>- 4</u>	<u>- 8</u>

9	13	6	13	9
<u>- 4</u>	<u>- 7</u>	<u>- 2</u>	<u>- 9</u>	<u>- 3</u>

12	17	10	8	18
<u>- 6</u>	<u>- 9</u>	<u>- 5</u>	<u>- 6</u>	<u>- 9</u>

16	8	11	11	13
<u>- 9</u>	<u>- 4</u>	<u>- 3</u>	<u>- 6</u>	<u>- 5</u>

5	12	11	9	16
<u>- 2</u>	<u>- 4</u>	<u>- 9</u>	<u>- 7</u>	<u>- 8</u>
3	8	2	2	8

10	14	14	14	8
<u>- 6</u>	<u>- 5</u>	<u>- 7</u>	<u>- 6</u>	<u>- 3</u>
4	9	7	8	5

15	11	12	7	15
<u>- 7</u>	<u>- 4</u>	<u>- 7</u>	<u>- 2</u>	<u>- 6</u>
8	7	5	5	9

12	6	10	7	10
<u>- 9</u>	<u>- 3</u>	<u>- 3</u>	<u>- 4</u>	<u>- 8</u>
3	3	7	3	2

9	13	6	13	9
<u>- 4</u>	<u>- 7</u>	<u>- 2</u>	<u>- 9</u>	<u>- 3</u>
5	6	4	4	6

12	17	10	8	18
<u>- 6</u>	<u>- 9</u>	<u>- 5</u>	<u>- 6</u>	<u>- 9</u>
6	8	5	2	9

16	8	11	11	13
<u>- 9</u>	<u>- 4</u>	<u>- 3</u>	<u>- 6</u>	<u>- 5</u>
7	4	8	5	8

Week 6 - Monday, May 4th - Pre-Algebra

HW 11.3, Written Exercises, pg. 407, #2-28, evens

2. an odd number:
Odd #'s = 1, 3, 5

$$\frac{3}{6} = \boxed{\frac{1}{2}}$$

4. a number greater than 3:
4, 5, 6

$$\frac{3}{6} = \boxed{\frac{1}{2}}$$

6. a number less than 7:
1, 2, 3, 4, 5, 6

$$\frac{6}{6} = \boxed{1}$$

$$8. P(A) = \frac{5}{20} = \boxed{\frac{1}{4}}$$

$$10. P(2) = \frac{4}{20} = \boxed{\frac{1}{5}}$$

$$12. P(\text{blue}) = \frac{10}{20} = \boxed{\frac{1}{2}}$$

$$14. P(\text{not D}) = \frac{15}{20} = \boxed{\frac{3}{4}}$$

$$16. P(1, 2, 3, \text{ or } 4) = \frac{16}{20} = \boxed{\frac{4}{5}}$$

$$18. P(\text{not } 1, 2, 3, \text{ or } 4) = \frac{4}{20} = \boxed{\frac{1}{5}}$$

$$20. P(\text{white or blue}) = \frac{8}{12} = \boxed{\frac{2}{3}}$$

$$22. P(\text{even-numbered}) = \frac{6}{12} = \boxed{\frac{1}{2}}$$

$$24. P(\text{multiple of 4}) = \frac{3}{12} = \boxed{\frac{1}{4}}$$

$$26. P(\text{odd \# \& red}) = \frac{2}{12} = \boxed{\frac{1}{6}}$$

$$28. P(\text{blue mult. of 5}) = \frac{0}{12} = \boxed{0}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

Week 6, Tuesday, May 5th, Pre-Algebra

HW 11-4, Class Exercises, pg. 410, 1-8, all.

1. $\frac{80\% \text{ chance of no rain}}{20\% \text{ chance of rain}} = \frac{80}{20} = \frac{4}{1}$

or $\frac{4}{1}$ or 4 to 1 or 4:1

2. $\frac{\text{Not rolling a 4}}{\text{rolling a 4}} = \frac{5}{1}$ or 5 to 1 or 5:1

3. a. in favor of an odd #:

$\frac{5}{5} = \frac{1}{1}$ or 1 to 1 or 1:1

b. against an odd #:

$\frac{5}{5} = \frac{1}{1}$ or 1 to 1 or 1:1

4. a. in favor of a mult. of 3:

$\frac{3}{7}$ or 3 to 7 or 3:7

b. against a multiple of 3:

$\frac{7}{3}$ or 7 to 3 or 7:3

5. a. in favor of a factor of 10:

Factors of 10: 1, 2, 5, 10

$\frac{4}{6} = \frac{2}{3}$ or 2 to 3 or 2:3

b. Against: $\frac{6}{4} = \frac{3}{2}$ or 3 to 2 or 3:2

6. a. in favor of a # < 7
1, 2, 3, 4, 5, 6

$\frac{6}{4} = \frac{3}{2}$ or 3 to 2 or 3:2

b. Against:

$\frac{4}{6} = \frac{2}{3}$ or 2 to 3 or 2:3

7. Odds: $\frac{\text{Favorable}}{\text{Unfavorable}} = \frac{1}{1}$

Favorable + Unfavorable = Total
 $1 + 1 = 2$

Probability: $\frac{\text{Favorable}}{\text{Total}} = \frac{1}{2}$

8. Probability: $\frac{\text{Favorable}}{\text{Total}} = \frac{1}{2}$

Odds: $\frac{\text{Favorable}}{\text{Unfavorable}} = \frac{1}{1}$ or 1 to 1 or 1:1

$$\begin{array}{r} 6 \\ \div 3 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \div 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \div 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \div 2 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \div 8 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \div 6 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \div 5 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \div 7 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \div 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \div 5 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \div 8 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \div 7 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ \div 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \div 5 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \div 6 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ \div 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \div 3 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \div 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \div 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ \div 2 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \div 4 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ \div 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \div 2 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \div 3 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ \div 6 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \div 9 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \div 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \div 2 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ \div 9 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ \div 9 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ \div 4 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \div 3 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \div 6 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \div 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \div 3 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 32 \\ \div 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 18 \\ \div 9 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 14 \\ \div 2 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 64 \\ \div 8 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 24 \\ \div 6 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 45 \\ \div 5 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 49 \\ \div 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 48 \\ \div 8 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 15 \\ \div 5 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 56 \\ \div 8 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 28 \\ \div 7 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 35 \\ \div 7 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 10 \\ \div 5 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 54 \\ \div 6 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 27 \\ \div 9 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 9 \\ \div 3 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 21 \\ \div 3 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 12 \\ \div 4 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 16 \\ \div 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 20 \\ \div 4 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 42 \\ \div 7 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 8 \\ \div 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 18 \\ \div 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 36 \\ \div 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 72 \\ \div 9 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 25 \\ \div 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 12 \\ \div 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 81 \\ \div 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 63 \\ \div 9 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 16 \\ \div 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 24 \\ \div 3 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 30 \\ \div 6 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 40 \\ \div 5 \\ \hline 8 \end{array}$$

Week 6, Wednesday, May 6th, Pre-Algebra

HW 11-4, pg. 411, Written Exercises, #2-24, evens

2. 6 red
2 white
4 blue
12 total

2. Odds in favor of white:

$$\frac{2}{10} = \frac{1}{5} \text{ or } 1:5 \text{ or } 1 \text{ to } 5$$

4. Odds in favor of white or blue:

$$\frac{6}{6} = \frac{1}{1} \text{ or } 1:1 \text{ or } 1 \text{ to } 1$$

6. Odds in favor of red or white:

$$\frac{8}{4} = \frac{2}{1} \text{ or } 2:1 \text{ or } 2 \text{ to } 1$$

8. Probability = $\frac{75}{100} = \frac{3}{4}$ ← total

Odds = $\frac{\text{Favorable}}{\text{Unfavorable}} = \frac{3}{1}$ or 3 to 1 or 3:1

10. 30% chance of winning
70% chance of losing

Odds against winning = $\frac{\text{losing}}{\text{winning}} = \frac{70}{30}$

$$\frac{7}{3} \text{ or } 7 \text{ to } 3 \text{ or } 7:3$$

12. Odds against a blue card:

$$\frac{10}{10} = \frac{1}{1} \text{ or } 1:1 \text{ or } 1 \text{ to } 1$$

14. Odds against a C:

$$\frac{15}{5} = \frac{3}{1} \text{ or } 3:1 \text{ or } 3 \text{ to } 1$$

16. Odds against B2, B3, B4, or B5

$$\frac{16}{4} = \frac{4}{1} \text{ or } 4:1 \text{ or } 4 \text{ to } 1$$

2nd die

18.

	1	2	3	4	5	6	
1st die	1	2	3	4	5	6	7 ←
	2	3	4	5	6	7	8
	3	4	5	6	7	8	9
	4	5	6	7	8	9	10
	5	6	7	8	9	10	11
	6	7	8	9	10	11	12

For the rest of the questions

18. Odds against 11:

$$\frac{34}{2} = \frac{17}{1} \text{ or } 17:1 \text{ or } 17 \text{ to } 1$$

20. Odds against a 2 or 12:

$$\frac{34}{12} = \frac{17}{6} \text{ or } 17:6 \text{ or } 17 \text{ to } 6$$

22. Odds against less than 6:

$$\frac{26}{10} = \frac{13}{5} \text{ or } 13:5 \text{ or } 13 \text{ to } 5$$

24. Odds against being 3

24. a. odds against divisible by 3:

Divisible by 3:

3 (2)

6 (5)

9 (4)

12 (1)

12 #'s divisible by 3

24 are not divisible by 3
12 are divisible by 3

$$\frac{24}{12} = \boxed{\frac{2}{1}} \text{ or } \boxed{2:1} \text{ or } \boxed{2 \text{ to } 1}$$

b. Odds against not divisible by 3:

$$\begin{array}{l} \text{divisible by } 3 = \frac{12}{24} = \boxed{\frac{1}{2}} \\ \text{non divisible by } 3 = \frac{12}{24} = \boxed{\frac{1}{2}} \end{array}$$

$$\text{or } \boxed{1:2} \text{ or } \boxed{1 \text{ to } 2}$$

Name _____

Section _____

$$\sqrt[2]{36} =$$

$$\sqrt[3]{27} =$$

$$\sqrt[4]{81} =$$

$$\sqrt[5]{3125} =$$

$$\sqrt[2]{361} =$$

$$\sqrt[3]{1000} =$$

$$\sqrt[4]{625} =$$

$$\sqrt[5]{243} =$$

$$\sqrt[2]{64} =$$

$$\sqrt[3]{216} =$$

$$\sqrt[4]{256} =$$

$$\sqrt[5]{1024} =$$

$$\sqrt[2]{25} =$$

$$\sqrt[3]{8} =$$

$$\sqrt[4]{16} =$$

$$\sqrt[5]{32} =$$

$$\sqrt[2]{100} =$$

$$\sqrt[3]{729} =$$

$$\sqrt[2]{4} =$$

$$\sqrt[3]{64} =$$

$$\sqrt[2]{121} =$$

$$\sqrt[3]{512} =$$

$$\sqrt[2]{16} =$$

$$\sqrt[3]{343} =$$

$$\sqrt[2]{169} =$$

$$\sqrt[3]{125} =$$

$$\sqrt[2]{49} =$$

$$\sqrt[2]{289} =$$

$$\sqrt[2]{400} =$$

$$\sqrt[2]{9} =$$

$$\sqrt[2]{196} =$$

$$\sqrt[2]{324} =$$

$$\sqrt[2]{256} =$$

$$\sqrt[2]{225} =$$

$$\sqrt[2]{144} =$$

Name _____

Section _____

$$\sqrt[2]{36} = 6$$

$$\sqrt[3]{27} = 3$$

$$\sqrt[4]{81} = 3$$

$$\sqrt[5]{3125} = 5$$

$$\sqrt{361} = 19$$

$$\sqrt[3]{1000} = 10$$

$$\sqrt[4]{625} = 5$$

$$\sqrt[5]{243} = 3$$

$$\sqrt{64} = 8$$

$$\sqrt[3]{216} = 6$$

$$\sqrt[4]{256} = 4$$

$$\sqrt[5]{1024} = 4$$

$$\sqrt{25} = 5$$

$$\sqrt[3]{8} = 2$$

$$\sqrt[4]{16} = 2$$

$$\sqrt[5]{32} = 2$$

$$\sqrt{100} = 10$$

$$\sqrt[3]{729} = 9$$

$$\sqrt{4} = 2$$

$$\sqrt[3]{64} = 4$$

$$\sqrt{121} = 11$$

$$\sqrt[3]{512} = 8$$

$$\sqrt{16} = 4$$

$$\sqrt[3]{343} = 7$$

$$\sqrt{169} = 13$$

$$\sqrt[3]{125} = 5$$

$$\sqrt{49} = 7$$

$$\sqrt{289} = 17$$

$$\sqrt{400} = 20$$

$$\sqrt{9} = 3$$

$$\sqrt{196} = 14$$

$$\sqrt{324} = 18$$

$$\sqrt{256} = 16$$

$$\sqrt{225} = 15$$

$$\sqrt{144} = 12$$