



CC3316

GRADES
6-8

Principles & Standards of Math Series

Data Analysis & PROBABILITY

Task & Drill Worksheets

Aligned to
your
State
Standards

Curriculum
Focal
Points

Real Life
Word
Problems



Heads: 8
Tails: 12



Reproducible

CLASSROOM COMPLETE  PRESS



TEACHER GUIDE

- NCTM Content Standards Assessment Rubric 6
- How Is Our Resource Organized? 7
- The NCTM Principles & Standards..... 8



STUDENT HANDOUTS

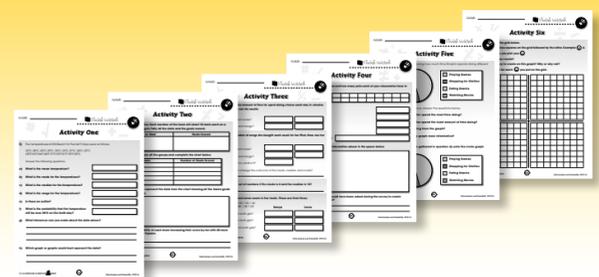
Data Analysis & Probability – Task Sheets

- Exercises – Teach the Skills
 - Task Sheet 1 9
 - Task Sheet 2 10
 - Task Sheet 3 11
 - Task Sheet 4 12
 - Task Sheet 5 13
 - Task Sheet 6 14
 - Task Sheet 7 15
 - Task Sheet 8 16
 - Task Sheet 9 17
 - Task Sheet 10 18
 - Task Sheet 11 19
 - Task Sheet 12 20
 - Task Sheet 13 21
 - Task Sheet 14 22
 - Task Sheet 15 23
- Drill Sheets 24
- Review 26

✓ **6 BONUS Activity Pages!** Additional worksheets for your students

FREE!

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC3116
- Enter pass code CC3116D for Activity Pages.



Contents



STUDENT HANDOUTS

Data Analysis & Probability – Drill Sheets

- Exercises – Practice the Skills Learned

Warm-Up Drill 1.....	29
Timed Drill 1 (5 minutes)	30
Timed Drill 2 (5 minutes)	31
Warm-Up Drill 2.....	32
Timed Drill 3 (5 minutes)	33
Timed Drill 4 (4 minutes)	34
Warm-Up Drill 3.....	35
Timed Drill 5 (5 minutes)	36
Timed Drill 6 (5 minutes)	37
Warm-Up Drill 4.....	38
Timed Drill 7 (6 minutes)	39
Timed Drill 8 (5 minutes)	40
Warm-Up Drill 5.....	41
Timed Drill 9 (6 minutes)	42
Warm-Up Drill 6.....	43
Timed Drill 10 (6 minutes)	44
Timed Drill 11 (7 minutes)	45

• Review	46
----------------	----



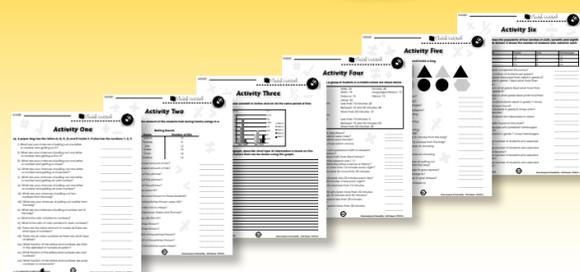
EASY MARKING™ ANSWER KEY	49
--------------------------------	----

MINI POSTERS	55
--------------------	----

✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC3216
- Enter pass code CC3216D for Activity Pages.

FREE!





Task Sheet 6

6) Create four sets of numbers.

- The first set of numbers will have a mode of 12.
 The second set of numbers will have a median of 36.
 The third set of numbers will have a mean of 17.
 The fourth set of numbers will have a range of 24.



a) _____

b) _____

c) _____

d) _____

Reflection

Explain the strategies you used to determine each set of numbers.



Task Sheet 11

11) The following are the Top Ten most visited Internet sites.

- 1) Yahoo Sites
- 2) Time Warner Network
- 3) Microsoft Sites
- 4) Google Sites
- 5) eBay
- 6) Fox Interactive Media
- 7) Amazon Sites
- 8) Ask Network
- 9) Wikipedia Sites
- 10) New York Times Digital



a) Represent this information in the circle graph provided below.



Explore With Technology

Visit <http://searchengineland.com/wikipedia-enters-top-ten-most-visited-sites-10536> to see how many millions of visitors each site had and input this information in a graph other than a circle graph.



- 2a) The following table shows the results of the Carroll Middle School 5 mile (8 km) Road Race.
 Ex: What is the mode of Jessica, Miguel, Carla and Leigh's race times? 28.15 min



Road Race results (in minutes and hundredths of a minute)

Jessica's time = 28.15 min	Arthur's time = 27.40 min	Dominic's time = 27.50 min
Miguel's time = 27.45 min	Chelsea's time = 29.01 min	Ariel's time = 27.55 min
Carla's time = 29.23 min	Leigh's time = 28.15 min	Ella's time = 29.03 min
Won's time = 28.67 min	Tim's time = 27.63 min	Tia's time = 27.83 min

- i) Who had the fastest time in this group? _____
- ii) Who had the slowest time in this group? _____
- iii) What is the range of times in this group? _____
- iv) What was Dominic's average time per mile (km)? _____
- v) What was Leigh's average time per mile (km)? _____
- vi) How much faster was Won than Chelsea? _____
- vii) What was the average time of Miguel, Dominic, and Arthur? _____
- viii) What was the mode of the race times? _____
- ix) How much slower was Jessica than Miguel? _____
- x) What was the average time of Miguel and Tim? _____
- xi) Who was 1.08 minutes faster than Carla? _____
- xii) Who was five hundredths of a minute slower than Dominic? _____
- xiii) How much faster was Tim than Tia? _____
- xiv) Which student came in second place in these results? _____
- xv) Which student came in fifth place in these results? _____
- xvi) Who was 0.02 minutes faster than Ella? _____

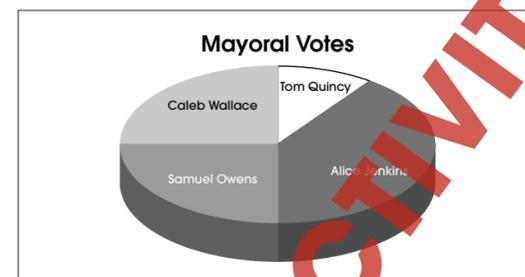
Explore With Technology

Use a graphing program online or on your computer to graph the results of this race.



4a) The pie chart below represents the percent of votes four candidates received in a mayor's race.

Ex: If 3,600 people voted, how many votes did Caleb Wallace and Samuel Owens receive? $3,600 \times 0.5$ (50%) = 1800 votes



- i) Which candidate won the mayoral race? _____
- ii) Which candidate came in last? _____
- iii) What two candidates tied in the race? _____
- iv) Who received about 40 percent of the vote? _____
- v) Alice Jenkins received a little under twice as many votes as which two candidates? _____
- vi) Which candidate received one-fifth of the vote that Alice Jenkins received? _____
- vii) What fraction of the vote did Alice Jenkins receive? _____
- viii) What fraction of the vote did Samuel Owens receive? _____
- ix) What fraction of the vote did Caleb Wallace receive? _____
- x) What fraction of the vote did Tom Quincy receive? _____
- xi) If 3,600 people voted, how many votes did Caleb Wallace receive? _____
- xii) If 3,600 people voted, how many votes did Alice Jenkins receive? _____
- xiii) If 3,600 people voted, how many votes did Samuel Owens receive? _____
- xiv) If 3,600 people voted, how many votes did Tom Quincy receive? _____
- xv) The percent of votes Tom Quincy received in this election doubled from the previous election. What percent of the vote did he receive in the previous election? _____
- xvi) Alice Jenkins percent of the vote also doubled since the last election? If the trend continues, what percent of the vote will she receive in the next election? _____



Drill Sheet 2

An outlier is a number that is significantly different from the rest of the grouping of numbers.

The following goals were scored at a basketball game.

The goals were scored at 1:56, 2:18, 2:35, 3:19, 4:12, 4:48, 1:56, 3:22, and 12:23.

- a) What is the mode?
- b) What is the median?
- c) What is the range?
- d) What is the mean?
- e) Which time is the outlier?
- f) Calculate the mean, median, range, and mode without the outlier.
- Mean
- Median
- Mode
- Range

- g) Explain how excluding the outlier changes the data. Is it a significant change. Why or why not?

- h) How can you explain the outlier?



Review A

Palmer has a bag of marbles. He has 20 marbles in his bag. He has 12 red marbles, 6 orange marbles, and 2 yellow marbles.

Show the probability of choosing each marble in fractions and percentages.

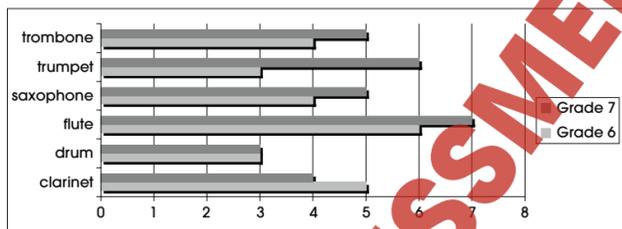
- | | Fraction | Percent |
|---|----------------------|----------------------|
| a) Choosing a red marble. | <input type="text"/> | <input type="text"/> |
| b) Choosing an orange marble. | <input type="text"/> | <input type="text"/> |
| c) Choosing a yellow marble. | <input type="text"/> | <input type="text"/> |
| d) Choosing an orange or yellow marble. | <input type="text"/> | <input type="text"/> |
- e) What other questions can you ask and show as a fraction or percent for the marbles in Palmer's bag?

Reflection Express the mean, median, mode, and range for the marbles in Palmer's bag. Are these findings significant? Explain.



Review B

a) The graph below shows the number of students who play different instruments in the Carroll School band.



- How many total sixth graders are in the band? _____
- How many total seventh graders are in the band? _____
- What instrument is played by the greatest number of sixth and seventh graders? _____
- What instrument is played by the least number of sixth and seventh graders? _____
- What instrument is played by an equal number of sixth and seventh graders? _____
- How many more seventh graders play trombone than sixth graders? _____
- Which instrument is played by twice as many seventh graders as sixth graders? _____
- Which instrument is played by more sixth graders than seventh graders? _____
- What fraction of the sixth graders play clarinet? _____
- What fraction of the seventh graders play saxophone? _____
- What is the ratio of sixth grade flute players to sixth grade drum players? _____
- What is the ratio of seventh grade clarinet players to seventh grade trumpet players? _____
- What percent of the sixth graders play drums? _____
- What percent of the seventh graders play trumpet? _____
- What percent of the total sixth and seventh graders play flute? _____
- What percent of the total sixth and seventh graders play saxophone? _____

Probability

As a class or in small groups, roll 2 dice 12 times and record your results below.

- a) List the 2-dice combinations you rolled below.
1. _____ 2. _____ 3. _____
 4. _____ 5. _____ 6. _____
 7. _____ 8. _____ 9. _____
 10. _____ 11. _____ 12. _____
- b) For each 2-dice combination listed above, list the other different 2-dice combinations you could roll to get that same total.
1. _____ 2. _____ 3. _____
 4. _____ 5. _____ 6. _____
 7. _____ 8. _____ 9. _____
 10. _____ 11. _____ 12. _____
- c) For each 2-dice combination listed in section a), list the probability of rolling the total number using any 2 dice.
1. _____ 2. _____ 3. _____
 4. _____ 5. _____ 6. _____
 7. _____ 8. _____ 9. _____
 10. _____ 11. _____ 12. _____
- d) List the probability of rolling the following totals with 2 dice.
1. _____ 2. _____ 3. _____
 4. _____ 5. _____ 6. _____
 7. _____ 8. _____ 9. _____
 10. _____ 11. _____ 12. _____

You've Just Finished your Free Sample

Enjoyed the preview?

Buy: <http://www.ebooks2go.com>