



TEACHER GUIDE

- NCTM Content Standards Assessment Rubric 4
- How Is Our Resource Organized? 5
- The NCTM Principles & Standards..... 6



STUDENT HANDOUTS

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



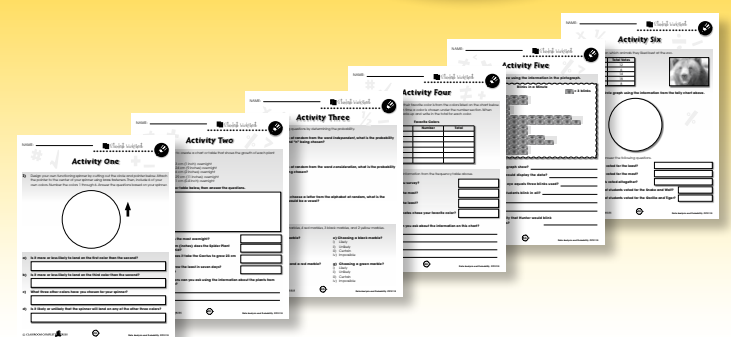
EASY MARKING™ ANSWER KEY 27

MINI POSTERS 30

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

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC3110
- Enter pass code CC3110D for Activity Pages.

FREE!



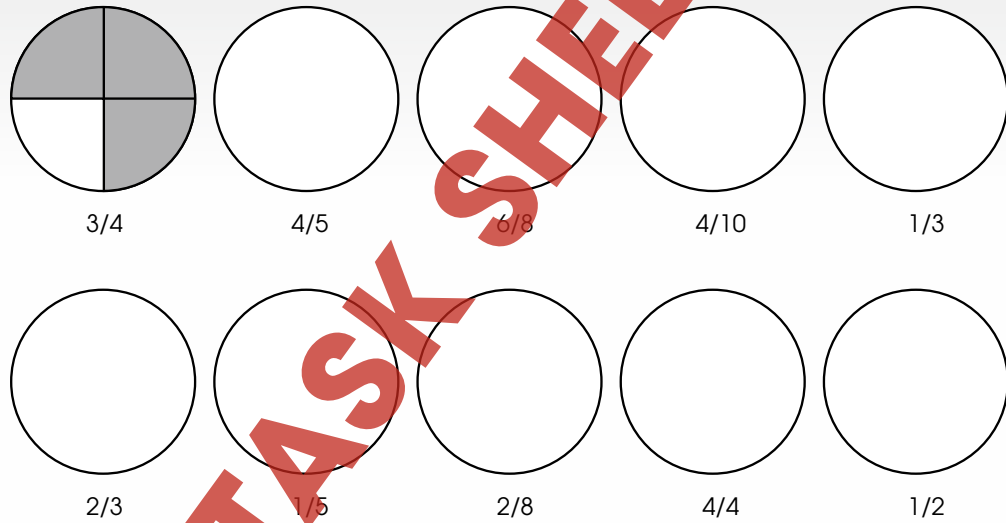


Task Sheet 3

3) Amanda's cross country coach was so proud of the team for their hard work that he bought them all pizza. Each class ordered a different number of slices for each type of pizza.



Create a circle graph to match the fraction for each pizza, then color each portion in. The first one has been done for you.



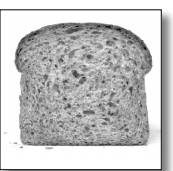
Reflection

Survey your classmates to find out what pizza they like best. Create a circle graph in a drawing program on the computer to display the information you collected. Compare your answers with another class.



Task Sheet 11

11) Identify the amount to go with each baker's bread recipe by writing Baker A, Baker B, or Baker C in the answer space provided.



Baker A wants the recipe equal to $1/4$ Baker B wants the recipe equal to $2/6$ Baker C will use whatever is left over

- a) $3/12$ _____
- b) $2/4$ _____
- c) $4/12$ _____
- d) $6/18$ _____
- e) $2/8$ _____
- f) $3/15$ _____
- g) $1/3$ _____
- h) $7/21$ _____
- i) $5/25$ _____

j) What kind of graphs and charts can you use to display this information and why?

Reflection

Choose two of the fractions above and create two different pictures to show how a fraction can be portrayed in artistic form. For example: one third of the picture is one color, design, landscape, animal, etc.



Task Sheet 14

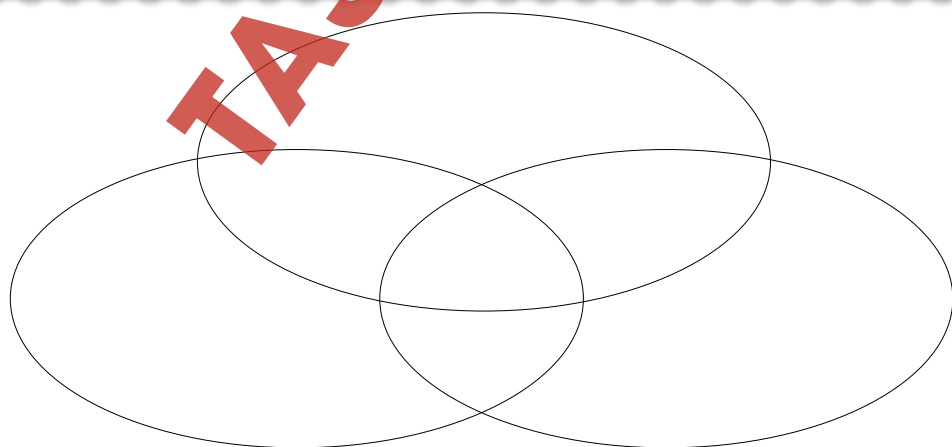
14) A bag contains 100 marbles, 49 are green, 28 are red and 23 are blue. A marble is picked at random from the bag. Find the probability of choosing the following colors using the format below.



of ways to choose color
Total number of marbles

- a) What is the probability of choosing red? _____
- b) What is the probability of choosing green? _____
- c) What is the probability of choosing blue? _____

Write the strategies you used to find the answers to this question. For example: did you use pre-reading strategies, did you draw a chart, diagram, or picture? Talk with two classmates about the strategies that they used and compare it to your own. How were their strategies the same or different from your own? Graph all the strategies on the Venn diagram below. Write each person's name in each individual circle, along with their different strategies. Write the similar strategies in the overlapping circles.



Drill Sheet 1

Choose likely, unlikely, certain, or impossible for each statement.

- Likely:** Possible to happen but not certain.
- Unlikely:** Improbable to happen but not impossible.
- Certain:** A good chance that it will happen.
- Impossible:** Would not be probable to happen.

Augustine bought a bag of assorted cookies. Given the information below, answer the following questions by stating likely, unlikely, certain, or impossible.

There are 24 cookies in each bag.
The bag had chocolate chip, oatmeal, and peanut butter cookies.
There were more peanut butter cookies than chocolate chip cookies.
There were more oatmeal than both chocolate chip and peanut butter cookies.

- a) What is the probability of choosing peanut butter cookies? _____
- b) What is the probability of choosing chocolate chip cookies? _____
- c) What is the probability of choosing oatmeal cookies? _____
- d) What other statements can you make about the information provided above? _____

Reflection

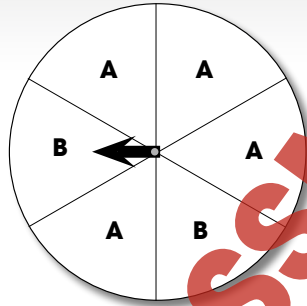
What other information about the bag of cookies could be provided to make answering the probability of choosing a certain type of cookie easier? Explain your answer.

NAME: _____



Drill Sheet 2

Indicate the probability by first giving the expression in a fraction, then use likely, unlikely, certain, or impossible.



What is the probability of:

- a) Choosing A when spinning the wheel?
- b) Choosing B when spinning the wheel?
- c) Choosing C when spinning the wheel?
- d) Choosing a joker in a deck of 52 cards?
- e) Choosing an ace in a deck of cards?
- f) Choosing an even number or face card in a deck of cards?
- g) Choosing a heart in a deck of cards?
- h) Choosing a black suit in a deck of cards?
- i) Rolling a 6 on a standard six-sided die?
- j) Rolling an even number on a standard six-sided die?
- k) Rolling a 9 or 8 on a standard six-sided die?

NAME: _____

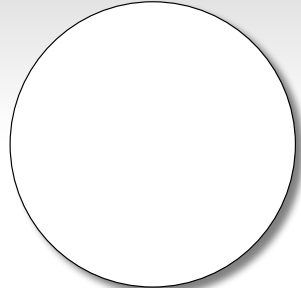


Review B

Galen and Tessa go to the target range for archery practice. Colors on the target indicate a different number of points.

- Yellow is 50 points
- Red is 40 points
- Blue is 30 points
- Black is 20 points
- White is 10 points

Answer the following questions using the information above. Remember to show your work and explain your thinking using diagrams, pictures, and charts.

- a) What are all the ways Galen can score 200 points?
- Show your work:
- Answer: _____
- b) What are all the ways that Galen and Tessa as a team can score 150 points?
- Show your work:
- Answer: _____
- c) One way to organize data is to use the same shape as indicated in the question, in this case, an archery target. Use the circle to the right to show the possible point combinations when scoring 300 points.
- 



NAME: _____

Review C

Students in Alvin's class were asked to list the brand name of the shoes they wear.

The results were:

Keds, Nike, Keds, Rockport, Skechers, Hush Puppies, Clarks, Nike, Keds, New Balance, Converse, Converse, New Balance, Skechers, Adidas, Keds, Skechers, Clarks

- a) Make a frequency table.
-
- b) Draw a line plot.
-
- c) Which brand of shoe was worn the most?
- d) Which brand of shoes were worn the least?

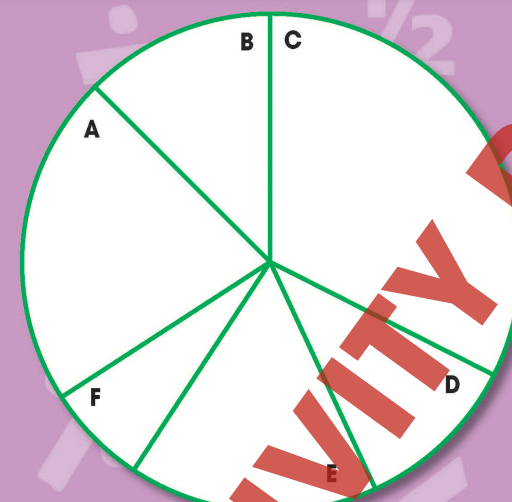
Reflection Collect data about items you have in your own bedroom. Create probability questions for your classmates to solve.

Calculating Popsicle Sales

The School Parent Council is having a Popsicle sale to raise money for the school library.

Look at the section of the circle graph carefully. The smallest section will be the least number of popsicles sold. Using the information below, finish the circle graph by writing the grade and amount of popsicles sold into their corresponding section.

Grade 1: 48 Popsicles sold	Grade 2: 18 Popsicles sold	Grade 3: 25 Popsicles sold
Grade 4: 15 Popsicles sold	Grade 5: 30 Popsicles sold	Grade 6: 19 Popsicles sold



- a) Which grade bought the most popsicles?
- b) Which grade bought the fewest popsicles?
- c) How many more popsicles did the Grade 1s buy than the Grade 5s?
- d) How many popsicles were sold in all?



Task Sheet 10

10) A number cube has 10 sides. The sides have the numbers 5, 6, 8, 4, 2, 4, 2, 4, 9 and 3.



a) If the cube is thrown once, what is the probability of rolling the number 4?

- i) $4/10$
- ii) $1/10$
- iii) $3/10$
- iv) $2/10$

b) If the cube is thrown once, what is the probability of rolling the number 2?

- i) $1/10$
- ii) $3/10$
- iii) $2/10$
- iv) $4/10$

c) If the cube is thrown once, what is the probability of rolling a 5 or an 8?

- i) $3/10$
- ii) $5/10$
- iii) $2/10$
- iv) $1/10$

d) A number cube has 6 sides. The sides are numbered 1 to 6. If the cube is thrown once, what is the probability of rolling the number 2?

- i) $1/6$
- ii) $3/6$
- iii) $5/6$
- iv) $6/6$

e) A number cube has 6 sides. The sides are numbered 1 to 6. If the cube is thrown once, what is the probability of rolling the numbers 3 or 4?

- i) $1/6$
- ii) $2/6$
- iii) $3/6$
- iv) $4/6$

10.

a) iii) $3/10$

b) iii) $2/10$

c) iii) $2/10$

d) i) $1/6$

e) ii) $2/6$

16

11.

a) Baker A

b) Baker C

c) Baker B

d) Baker B

e) Baker A

f) Baker C

g) Baker B

h) Baker B

i) Baker C

17

12.

a) $1/4$

b) $3/4$

c) $1/4$

d) Answers will vary.

18

13.

a) Strawberries, because there are more strawberries in the bales than blueberries.

b) Unlikely, because $840 + 220 = 1060$, $1060/4 = 265$ so 4 evenly divides into 1060.

c) Answers will vary.

d) Answers will vary.

19

14.

a) $28/100$

b) $49/100$

c) $23/100$

20



EASY MARKING ANSWER KEY