

Math (HS)

	Day	Date	Assignment/Video	Is it done?
34	Tuesday	5/5/2020	factor 2	
35	Wednesday	5/6/2020	factor	
36	Thursday	5/7/2020	practice test 20	
37	Friday	5/8/2020	"field trip day" - try to do something fun	
39	Tuesday	5/12/2020	graphs	
40	Wednesday	5/13/2020	tables	
41	Thursday	5/14/2020	probability	
42	Friday	5/15/2020	statistics	
	How many total did you do:			

Zoom sessions available upon request for those who need help

We usually do these during a school day in May.
Please return this form at the 5-18 dropoff/pickup day.
It helps TMR to work up a class schedule for next year.
Thank you.

Name _____	Grade Next Year _____	2020-21 Pre-Schedule Form	
I expect to be at CCA _____	Elsewhere _____	Don't Know _____	
Math			
General Math _____	Algebra I _____	Trigonometry _____	
Pre-Algebra _____	Geometry _____	Calculus _____	
French:			
Yes _____	No _____	Level _____	
Spanish:			
Yes _____	No _____	Level _____	
English _____			
Lunch Help _____			
9th-12th:			
Accelerated _____	Regular _____		
11th/12th:			
Physics _____	Environmental _____		
Electives (Rank your choices starting with 1 for your first choice, ranking anything you think you might take)			
Art _____	Computers _____	Girls Only _____	Speech _____
Boys Only _____	Cook \$ _____	Health _____	Video Classics _____
Child Dev _____	Debate _____	Keyboarding _____	Worship Team _____
College + Career _____	Drama _____	Money Mgmt _____	

Name _____

Math, Factoring 2 (2020)

1. $x^2 + 11x - 12$ _____
2. $x^2 - 7x - 18$ _____
3. $x^2 + 4x - 21$ _____
4. $x^2 - x - 20$ _____
5. $x^2 + 23x - 24$ _____
6. $x^2 - 16x - 36$ _____
7. $x^2 + 3x - 28$ _____
8. $x^2 - x - 30$ _____
9. $x^2 + x - 42$ _____
10. $x^2 - 6x - 16$ _____
11. $x^2 + 9x - 10$ _____
12. $x^2 - 7x - 30$ _____
13. $x^2 + 24x - 25$ _____
14. $x^2 - 11x - 12$ _____
15. $x^2 + 2x - 15$ _____
16. $x^2 - 10x - 24$ _____
17. $x^2 + 2x - 48$ _____
18. $x^2 - 14x - 32$ _____
19. $x^2 + 7x - 60$ _____
20. $x^2 - 9x - 22$ _____

21. $x^2 + 13x - 48$ _____
22. $x^2 + 14x - 32$ _____
23. $x^2 + 5x - 14$ _____
24. $x^2 - 9x - 22$ _____
25. $x^2 + 6x - 40$ _____
26. $x^2 - 9x - 36$ _____
27. $x^2 + 2x - 15$ _____
28. $x^2 - 3x - 28$ _____
29. $x^2 + 7x - 44$ _____
30. $x^2 - 7x - 30$ _____
31. $x^2 + 1x - 12$ _____
32. $x^2 - 8x - 20$ _____
33. $x^2 + 3x - 28$ _____
34. $x^2 - 2x - 35$ _____
35. $x^2 + 3x - 54$ _____
36. $x^2 - 5x - 50$ _____
37. $x^2 - 4x - 32$ _____
38. $x^2 - 2x - 48$ _____
39. $x^2 - 10x - 24$ _____
40. $x^2 - 5x - 36$ _____

Name _____

Math, Factoring

1. $x^2 + 8x + 12$ _____

21. $x^2 + 19x + 48$ _____

2. $x^2 - 11x + 18$ _____

22. $x^2 + 14x - 32$ _____

3. $x^2 + 4x - 21$ _____

23. $x^2 + 5x - 14$ _____

4. $x^2 - x - 20$ _____

24. $x^2 - 9x - 22$ _____

5. $x^2 + 10x + 24$ _____

25. $x^2 + 41x + 40$ _____

6. $x^2 - 13x + 36$ _____

26. $x^2 - 12x + 36$ _____

7. $x^2 + 3x - 28$ _____

27. $x^2 + 2x - 15$ _____

8. $x^2 - x - 30$ _____

28. $x^2 - 3x - 28$ _____

9. $x^2 + 13x + 42$ _____

29. $x^2 + 15x + 44$ _____

10. $x^2 - 8x + 16$ _____

30. $x^2 - 13x + 30$ _____

11. $x^2 + 9x - 10$ _____

31. $x^2 + 1x - 12$ _____

12. $x^2 - 7x - 30$ _____

32. $x^2 - 8x - 20$ _____

13. $x^2 + 10x + 25$ _____

33. $x^2 + 18x + 81$ _____

14. $x^2 - 11x - 12$ _____

34. $x^2 - 12x + 35$ _____

15. $x^2 + 2x - 15$ _____

35. $x^2 + 25x - 54$ _____

16. $x^2 - 10x - 24$ _____

36. $x^2 - 23x - 50$ _____

17. $x^2 + 19x + 48$ _____

37. $x^2 - 14x - 32$ _____

18. $x^2 - 14x - 32$ _____

38. $x^2 - 14x + 48$ _____

19. $x^2 + 7x - 60$ _____

39. $x^2 - 14x + 24$ _____

20. $x^2 - 9x - 22$ _____

40. $x^2 - 5x - 36$ _____

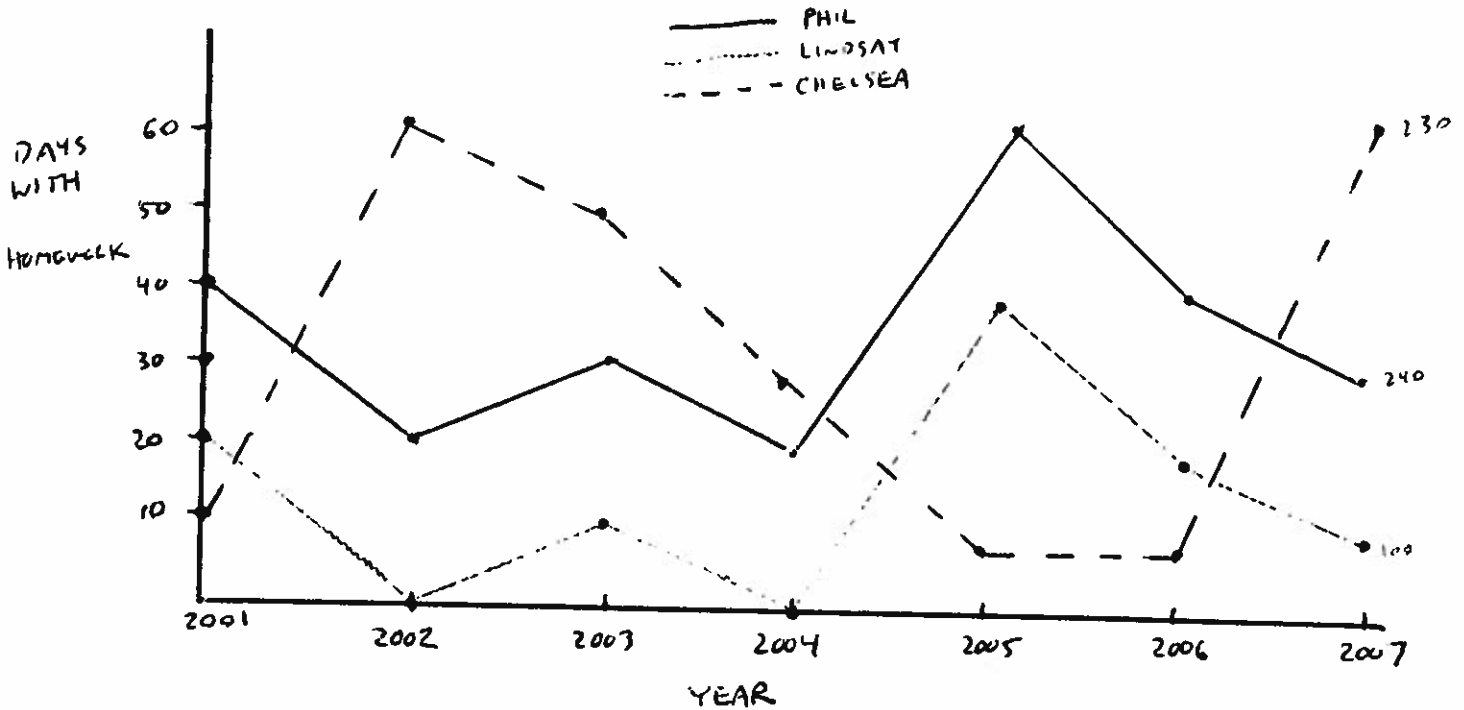
Name _____

Practice Test 20

1. $9x + 12$ _____
2. $14x - 18$ _____
3. $18x^3 + 15x^7$ _____
4. $8x + 16$ _____
5. $14x - 21$ _____
6. $12x^4 + 48x^5$ _____
7. $3x + 15$ _____
8. $18x - 6$ _____
9. $14x^8 + 28x^5$ _____
10. $5x + 15$ _____
11. $18x - 21$ _____
12. $10x^3 + 30x$ _____
13. $18x + 12$ _____
14. $30x - 24$ _____
15. $18x^3 + 12x^5$ _____
16. $(6x + 7)(4x - 2)$ _____
17. $(x - 8)(7x - 4)$ _____
18. $(5x + 7)(4x + 5)$ _____
19. $(5x - 8)(7x - 6)$ _____
20. $(7x^5 + 2)(3x^7 + 6)$ _____
21. $(x + 1)(4x - 6)$ _____
22. $(2x - 5)(5x - 8)$ _____

23. $(3x + 5)(6x + 9)$ _____
24. $(7x - 4)(x - 7)$ _____
25. $(x^2 + 5)(8x^3 + 6)$ _____
26. $(6x + 7)(9x - 2)$ _____
27. $(x - 6)(7x - 8)$ _____
28. $(7x + 7)(4x + 7)$ _____
29. $(3x - 8)(5x - 6)$ _____
30. $(9x^5 + 3)(4x^7 + 6)$ _____
31. $x^2 + 9x - 10$ _____
32. $x^2 - 7x - 30$ _____
33. $x^2 + 10x + 25$ _____
34. $x^2 - 11x - 12$ _____
35. $x^2 + 2x - 15$ _____
36. $x^2 - 10x + 24$ _____
37. $x^2 + 19x + 48$ _____
38. $x^2 - 14x - 32$ _____
39. $x^2 + 7x - 60$ _____
40. $x^2 - 9x - 22$ _____
41. $x^2 + 19x + 48$ _____
42. $x^2 + 14x - 32$ _____
43. $x^2 + 5x - 14$ _____
44. $x^2 - 9x - 22$ _____
45. $x^2 + 41x + 40$ _____

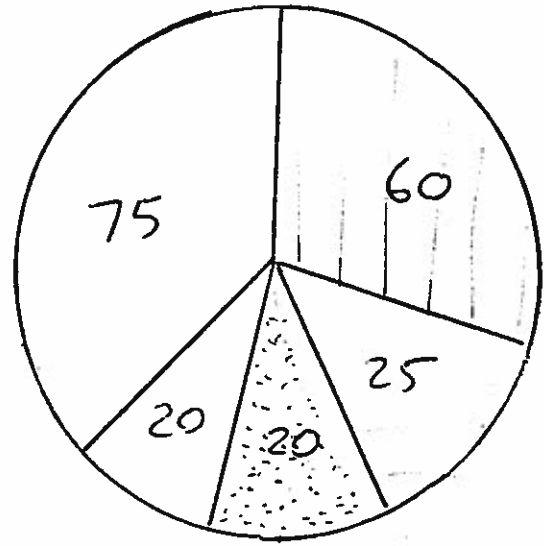
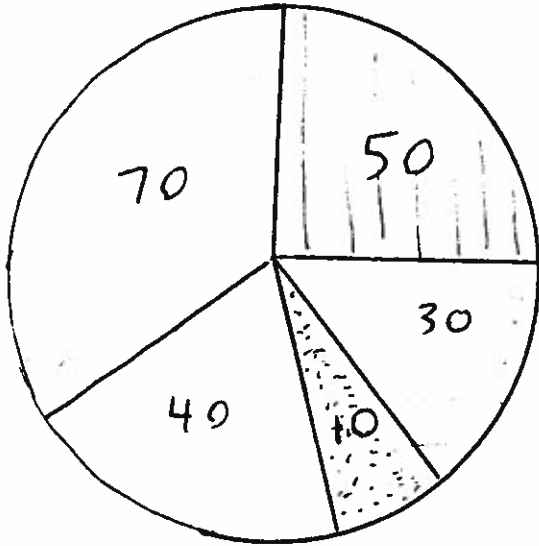
Name _____



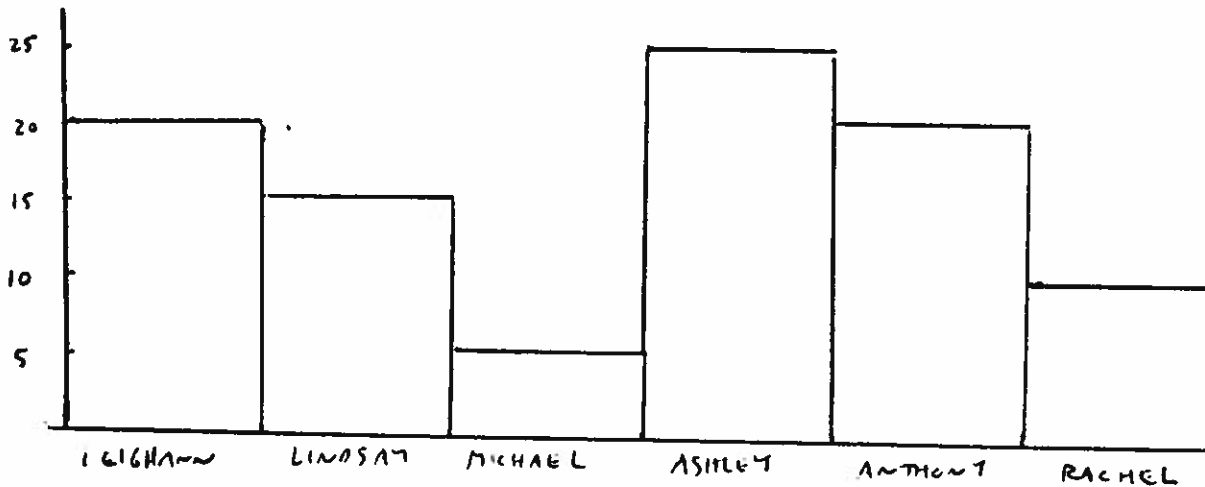
1. Whose homework decreased every year from 2002 to 2005? _____
2. Whose homework stayed the same from one year to the next? _____
3. How much more homework did Chelsea have than Phil in 2002? _____
4. Which two students differ by the same amount for each year? _____
5. What was the biggest increase from one year to the next? _____
6. If Lindsay has the same decrease from 2007 to 2008 that she did from 2006 to 2007, how many days will she have homework in 2008? _____
7. Whose homework increased from 2001 to 2002? _____
8. Who had the least amount of homework (total) for all of the years combined? _____
9. Who had the most (total) _____

HOMWORKS COMPLETED
2005

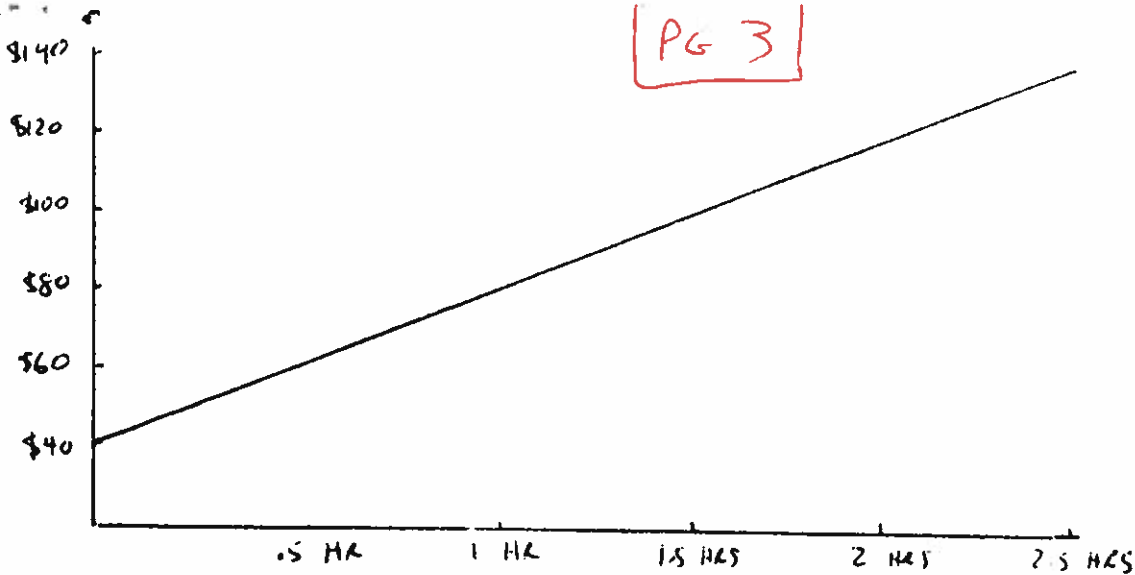
HOMWORKS COMPLETED
2006



9. Did Sam's homework increase or decrease from 2005 to 2006? How much? _____
10. Kyle? _____
11. Paul? _____
12. DeRon? _____
13. Mia? _____
14. In 2005, which 2 students combined to do half of the whole group's total homework? _____
15. Which person increased the most from 2005 to 2006? _____
16. Which person decreased the most from 2005 to 2006? _____

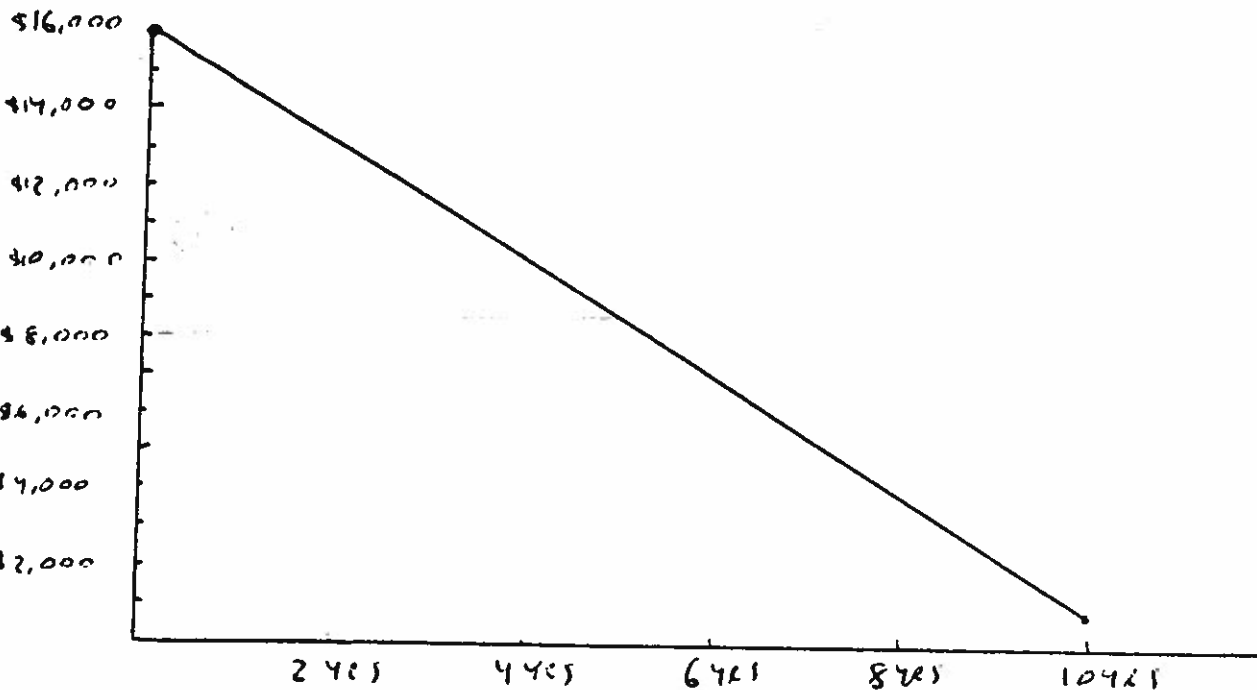


17. Who had the lowest quiz grade?
18. Who had the highest?
19. Who had matching grades?
20. What was the quiz out of?



The graph above shows the amount paid to a plumber for working at your house, depending on how long he works.

21. How much does he get paid if he works 1 hour?
22. How much does he get paid if he works 2 hours?
23. How much is he getting paid per hour?
24. How much does he get paid just for showing up, even if he doesn't do anything?
25. Even though the graph doesn't go that far, how much would he get paid for 3 hours?



The graph above shows the value of a car, depending on its age

26. How much is the car worth when it is 4 years old?
27. How much is it worth when it is 6 years old?
28. How much does it go down each year?
29. How much was the car worth when it was brand new?
30. When is the car worth half of its original value?

Name _____

	Rachel	Eric
Pens (15 cents)	5	16
Pencils (10 cents)	4	1
Notebooks (75 cents)	2	3

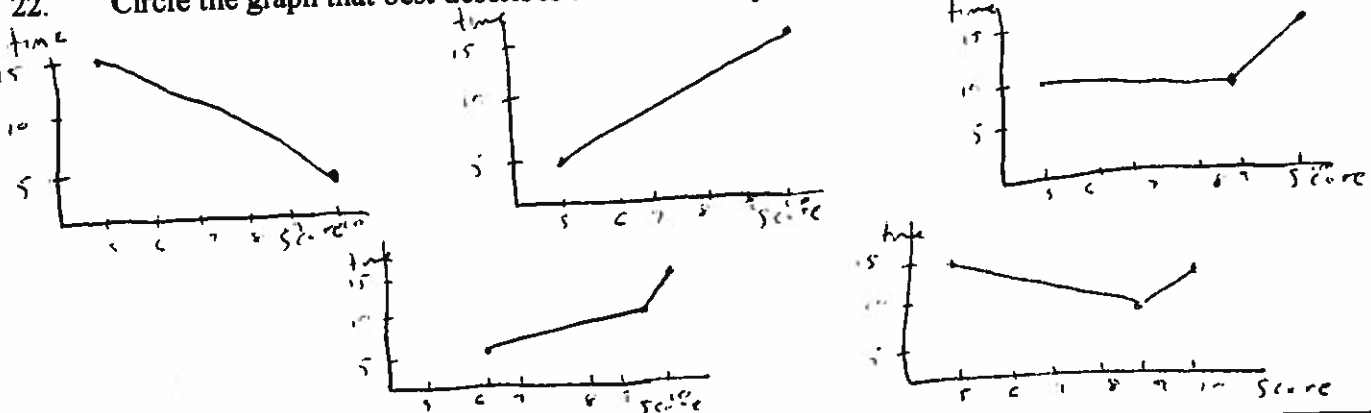
1. How much money did Rachel spend on pens? _____
2. How much money did Eric spend on pencils? _____
3. How much did Rachel spend in all? _____
4. How much did Eric spend in all? _____
5. How much more did Eric spend than Rachel on pens? _____
6. How much did Rachel and Eric spend altogether on notebooks? _____
7. Who spent the most on one category, and how much was spent on that category? _____

	Homework assignments completed (5 points each)	Best test grade	Average test grade (100 points each)
Dan	10	97	95
Mia	9	99	93
Sarah	6	70	62
Drake	8	75	72
Kayla	7	85	68

8. Who did the most homework? _____
9. Who had the best individual test? _____
10. Who had the worst individual test? _____
11. Who had the best average on the tests? _____
12. Who had the worst average on the tests? _____
13. What relationship exists between homework and average test grade? _____
14. How many total points did Sarah get for homework assignments? _____
15. How many total points did Drake get on tests? _____
16. To figure out how many total points for homework and tests were scored by Kayla, what other information would you need to be given? _____

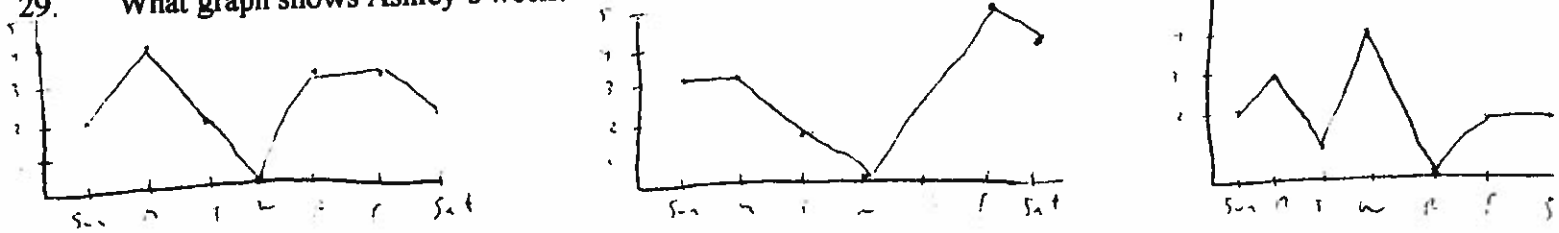
	Quiz 1	Quiz 2	Quiz 3	Quiz 4	Quiz 5
Time studying	5	5	10	15	10
Score	6	6	9	10	10

17. What fraction of the time did the student study more than 5 minutes? _____
18. How long did the student study for quiz 2? _____
19. What score did the student get on quiz 4? _____
20. What was the average quiz score? _____
21. What was the average quiz score if the student studied more than 5 minutes? _____
22. Circle the graph that best describes the relationship from the table above:



	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Ashley	2 mi	3 mi	1 mi	4 mi	0 mi	2 mi	2 mi
Rosa	3 mi	3 mi	2 mi	0 mi	0 mi	5 mi	4 mi

23. What day did neither girl walk?
24. Who walked the most miles during the week?
25. Who walked the most days during the week?
26. What day did both girls walk the same distance?
27. What distance was the most frequently walked distance (for both girls together)?
28. How many more miles did Rosa walk on Friday than Ashley did on Sunday?
29. What graph shows Ashley's week?



30. Make a graph that shows Rosa's week.

Name _____

Prerequisite skills required: none

Probabilities are fractions.

The top is the number of ways the desired event could happen.

The bottom is the number of possible things that could happen.

ex: the probability of any given day being a weekday is $\frac{5}{7}$ because there are 5 weekdays out of 7 total days in a week.

If something is definite, its probability is one.

If something is impossible, its probability is zero.

Find the probability

1. using a coin

Flipping a coin and getting a head.

Getting a tail.

2. rolling one die (numbered 1 to 6)

Getting a three.

Getting an odd number.

Getting at least a 2 (2 or more)

Getting a 7.

3. rolling two dice

Getting a total of 1

Getting a total of 2

Getting a total of 3

Getting a total of 4

Getting a total of 5

Getting a total of 6

Getting a total of 7

Getting a total of 8

Getting a total of 9

Getting a total of 10

Getting a total of 11

Getting a total of 12

Getting a total of 13

Getting a total between 2 and 12, inclusive (means that you include 2 and 12, as well as everything in between)

Getting an odd total

Getting an even total

Getting a total of at least 10

Getting a total of at most 5

4. Using a deck of cards, (if you are unfamiliar with cards, read the information below)

There are 52 total cards (no jokers).

There are 13 cards in each of 4 suits: heart, diamond, club, spade.

Hearts and diamonds are red. Clubs and spades are black.

Cards are numbered 2 to 10, with jacks, queens, kings, and aces.

Face cards are considered to be jacks, queens, and kings.

Picking a five

Picking a face card

Picking an odd number card (a three, five, seven, or nine)

Picking an even number card

Picking a heart

Picking a red card

Picking the three of clubs

Picking a joker

5. If there are 4 red marbles, 6 blue marbles, and 2 green marbles in a bag

Picking a red

Picking a blue

Picking a green

Picking a black

Picking a non-red marble

PG 2

Name _____

Prerequisite skills required: none

The mean of a group of numbers is the same thing as the average (add them, and divide by how many numbers are in the group)

The median is the middle number if they are arranged in order. If there is no middle number, average the middle two numbers.

The mode is the most common number. Two numbers can both be the mode if they occur the same number of times.

Ex: For the list 6 7 8 8

the mean is 7.25 (add the numbers to get 29, and divide by 4 since there are 4 numbers in the list)

the median is 7.5 (average 7 and 8 since there is not a single number in the middle of the list)

the mode is 8 (there are more 8's than any other number in the list)

Find the mean, median, and mode:

- | | mean | median | mode |
|----------------------------|------|--------|------|
| 1. 3 4 5 5 5 | | | |
| 2. 2 4 6 6 8 | | | |
| 3. 2 5 5 9 | | | |
| 4. 3 6 8 8 | | | |
| 5. 2 3 3 3 3 10 | | | |
| 6. 1 3 5 7 9 12 12 | | | |
| 7. 11 12 13 15 15 15 18 20 | | | |
| 8. 6 6 6 7 7 7 8 9 10 11 | | | |
| 9. 3 3 4 4 5 5 5 6 7 8 | | | |
| 10. 5 8 8 9 9 | | | |
| 11. 6 7 8 9 9 | | | |
| 12. 5 10 20 20 25 | | | |
| 13. 6 6 12 18 18 18 | | | |
| 14. 7 7 7 14 21 28 35 | | | |
| 15. 9 9 9 10 10 10 13 | | | |