

Name _____

Date _____

Part 1

(1A)

(1A)

1. Mrs. Forcier had 285 new pencils. Mr. Ruel had 100 **fewer** pencils than Mrs. Forcier. How many pencils did Mr. Ruel have?

- 185
- 275
- 295
- 385

2. Dennis counted 232 sour balls in his bag. Jan had 10 **fewer** sour balls in her bag. How many sour balls are in Jan's bag?

- 132
- 242
- 222
- 332

3. Ms Boyle had 281 mini-sized popsicles in the freezer. She bought 10 **more** popsicles. How many popsicles does she now have?

- 181
- 271
- 291
- 381

4. Steve bounced 645 times on the pogo stick without stopping. Jeff bounced 100 times **more** than Steve did. How many times did Jeff bounce on the pogo stick?

- 655
- 656
- 745
- 746

5. The apple farm had 3,296 bushels of red apples for sale. The farm also had 100 **more** bushels of yellow apples than red apples. How many bushels of yellow apples were for sale?

- 2,296
- 3,196
- 3,396
- 4,296

6. The town of Cold Creek has 2,461 people. Farmville has 100 **fewer** people than Cold Creek. How many people live in Farmville?

- 1,361
- 1,461
- 2,361
- 2,561

7. Laurie flew 5361 miles last year. Robert flew 100 **more** miles than Laurie. How many miles did Robert fly?

- 5451
- 5461
- 5471
- 5481

8. Last year Frank earned \$4836 working part time as a barber. This year he earned \$100 **less**. How much money did Frank earn this year?

- \$4936
- \$5836
- \$4736
- \$5736

(1B)

(1B)

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9. Which means the same as $300 + 50 + 7$?

- 300,507
- 30,507
- 3,057
- 357

10. Which means the same as $400 + 90$?

- 4,090
- 4,900
- 409
- 490

11. What is another way to express $500 + 2$?

- 502
- 520
- 5002
- 5200

12. What is another way to express $700 + 20 + 1$?

- 712
- 721
- 217
- 271

13. Which means the same as 461?

- $40 + 60 + 1$
- $400 + 60 + 1$
- $400 + 6 + 1$
- $4 + 6 + 1$

14. Which has the same value as 395?

- $300 + 90 + 50$
- $30 + 90 + 50$
- $300 + 9 + 5$
- $300 + 90 + 5$

15. What is another way to express 920?

- $200 + 9$
- $900 + 2$
- $200 + 90$
- $900 + 20$

16. Which has the same value as 104?

- $10 + 40$
- $10 + 4$
- $100 + 4$
- $100 + 400$

Name _____ Date _____ Part 2

(1D)

(1D)

A1. What is the value of 8 in the number 82?

- 2
- 8
- 20
- 80

A2. What is the value of 3 in the number 83?

- 3
- 38
- 30
- 80

A3. What is the value of 4 in the number 40?

- 40
- 30
- 20
- 10

A4. What is the value of 6 in the number 16?

- 1
- 6
- 10
- 60

A5. What is the value of 2 in the number 721?

- 2
- 12
- 20
- 200

A6. What is the value of 3 in the number 326?

- 200
- 300
- 500
- 600

A7. What is the value of 9 in the number 894?

- 4
- 90
- 40
- 900

A8. What is the value of 6 in the number 629?

- 60
- 90
- 600
- 900

(1D)

B1. In which number does 6 stand for 6 tens?

- 56
- 65
- 36
- 96

B2. In which number does 8 represent 8 ones?

- 48
- 80
- 82
- 85

B3. In which number does 2 stand for 2 hundreds?

- 192
- 921
- 129
- 291

B4. In which number does 6 have the value of 6 ones?

- 568
- 865
- 586
- 658

(1D)

B5. In which number does 7 represent 7 tens?

- 271
- 217
- 127
- 712

B6. In which number does 4 stand for 4 hundreds?

- 493
- 394
- 349
- 934

B7. In which number does 6 represent 6 ones?

- 368
- 386
- 638
- 863

B8. In which number does 1 have the value of 1 ten?

- 921
- 219
- 291
- 129

(1D)

C1. In which number does 2 stand for 20?

- 42
- 92
- 28
- 62

C2. In which number does 5 stand for 5?

- 25
- 50
- 51
- 52

C3. In which number does 1 stand for 1 one?

- 124
- 241
- 412
- 142

C4. In which number does 6 stand for 6 tens?

- 246
- 624
- 642
- 264

(1D)

C5. The digit 3 stands for 3 hundreds in which number below?

- 137
- 731
- 713
- 317

C6. The digit 8 stands for 8 tens in which number below?

- 582
- 825
- 258
- 528

C7. The digit 9 represents [*stands for*] 9 ones in which number below?

- 942
- 924
- 249
- 294

C8. The digit 7 represents 7 ones in which number below?

- 573
- 537
- 375
- 753

(1D)

D1. In which number does 4 have the **greatest** value?

- 942
- 492
- 249
- 924

D2. In which number does 2 have the **greatest** value?

- 924
- 294
- 429
- 942

D3. In which number does 6 have the **greatest** value?

- 962
- 692
- 269
- 926

D4. In which number does 9 have the **greatest** value?

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- 249
- 924

(1D)

D5. In which number does 8 have the **least** value?

- 687
- 867
- 786
- 678

D6. In which number does 1 have the **least** value?

- 315
- 135
- 513
- 351

D7. In which number does 4 have the **least** value?

- 184
- 841
- 481
- 148

D8. In which number does 5 have the **least** value?

- 657
- 567
- 756
- 675

(1D)

E1. In which number does the tens place have the **least** value?

- 29
- 92
- 31
- 13

E2. In which number does the tens place have the **greatest** value?

- 29
- 92
- 31
- 13

E3. In which number does the ones place have the **greatest** value?

- 29
- 92
- 31
- 13

E4. In which number does the ones place have the **least** value?

- 49
- 94
- 37
- 73

(1D)

E5. In which number does the hundreds place have the **greatest** value?

- 372
- 548
- 852
- 791

E6. In which number does the hundreds place have the **least** value?

- 294
- 360
- 586
- 749

E7. In which number does the tens place have the **least** value?

- 294
- 492
- 924
- 249

E8. In which number does the hundreds place have the **greatest** value?

- 284
- 521
- 397
- 186

(1D)

F1. The value of 28 would change by how much if the 8 were replaced by 7?

- 1
- 7
- 10
- 80

F2. The value of 47 would change by how much if 7 were replaced by 9?

- 2
- 7
- 9
- 16

F3: The value of 52 would change by how much if 1 replaced 5?

- 1
- 5
- 40
- 60

F4: The value of 37 would change by how much if 4 replaced 3?

- 10 ***
- 30
- 40
- 70

| |
|---|
| $\begin{array}{r} 47 \\ 37*** \\ \hline 10 \end{array}$ |
|---|

(1D)

F5. The value of 635 would change by how much if 8 replaced the 5?

- 3
- 5
- 30
- 500

F6. The value of 493 would change by how much if 4 were replaced by 1?

- 100
- 200
- 300
- 400

F7. The value of 259 would change by how much if 8 replaced 5?

- 3
- 30
- 50
- 500

F8. The value of 938 would change by how much if 7 replaced 3?

- 4
- 40 ***
- 400
- 4000

| |
|---|
| $\begin{array}{r} 978 \\ 938*** \\ \hline 40 \end{array}$ |
|---|

Name _____ Date _____ Part 3

(4A)

The chart below shows how the students at Polygon Public Elementary School voted:

| Favorite New Crayon Color | Number of Votes |
|---------------------------|-----------------|
| Dandelion | 286 |
| Jungle Green | 315 |
| Royal Purple | 229 |
| Wild Strawberry | 247 |

1. If the colors were written in order from **least to greatest** number of votes, which color would be written last?

- Dandelion
- Jungle Green
- Royal Purple
- Wild Strawberry

2. Which color had the **greatest** number of votes?

- Dandelion
- Jungle Green
- Royal Purple
- Wild Strawberry

3. How many colors had **fewer** than 250 votes?

- 0
- 1
- 2
- 3

(4A)

The table below shows the number of people living in four different towns in Connecticut in 2006.

| TOWN | POPULATION |
|---------|------------|
| Weston | 8846 |
| Redding | 8167 |
| Hebron | 8043 |
| Oxford | 9279 |

4. If the number of people living in each town were listed in order from **greatest to least**, which town would be listed third?

- Weston
- Redding
- Hebron
- Oxford

5. Which list below shows the four towns listed in order from **least to greatest** population?

- Oxford, Hebron, Redding, Weston
- Hebron, Oxford, Weston, Redding
- Oxford, Weston, Redding, Hebron
- Hebron, Redding, Weston, Oxford

6. How many towns had **more** than 8,850 people?

- 1
- 2
- 3
- 4

(4A)

The students in Grades 2, 3, 4, and 5 all collected pennies. The chart below shows how many pennies each grade collected.

| CLASS | NUMBER OF PENNIES |
|----------------|--------------------------|
| Grade 2 | 1018 |
| Grade 3 | 925 |
| Grade 4 | 1062 |
| Grade 5 | 987 |

7. If the number of pennies were listed in order from **least to greatest**, which class would be **third** on the list?

- Grade 2
- Grade 3
- Grade 4
- Grade 5

8. Which list shows the classes in order of pennies collected from **greatest to least**?

- Grade 3 Grade 5 Grade 2 Grade 4
- Grade 5 Grade 4 Grade 3 Grade 2
- Grade 4 Grade 2 Grade 5 Grade 3
- Grade 2 Grade 3 Grade 4 Grade 5

9. How many grades collected more pennies than Grade 4?

- 0
- 1
- 2
- 3

The table below shows how much money four people earned at their summer jobs.

| PERSON | MONEY EARNED |
|---------------|---------------------|
| Ida | \$5698 |
| Donna | \$4865 |
| Terry | \$4381 |
| Nancy | \$5299 |

10. Who earned the **greatest** amount of money?

- Ida
- Donna
- Terry
- Nancy

11. Who earned the **least** amount of money?

- Ida
- Donna
- Terry
- Nancy

12. How many people earned **less** than \$5000?

- 0
- 1
- 2
- 3

The fourth graders voted for their favorite pets. Use the chart to answer question 13.

| Pets | Number of Votes |
|---------|-----------------|
| cats | 19 |
| dogs | 16 |
| birds | 23 |
| snakes | 21 |
| gerbils | 26 |

13. Which pet had **2 fewer** votes than snakes?

- cats
- dogs
- birds
- gerbils

14. Jill had less than 75¢ and more than 67¢. How much money did Jill have?

- 52¢
- 65¢
- 72¢
- 85¢

15. Miss Satalino was driving between 27 and 35 miles per hour. How fast was she driving?

- 22 miles
- 24 miles
- 26 miles
- 28 miles

The table below shows the length of four animals. Use the table to answer questions 16 – 18.

| Animal | Length in Inches |
|-----------|------------------|
| Gibbon | 35 |
| Langur | 42 |
| Monkey | 30 |
| Orangutan | 49 |

15. Which animal was **greater** than 31 inches but **less** than 41 inches long?

- Monkey
- Gibbon
- Langur
- Orangutan

16. How many animals were **greater** than 35 inches in length?


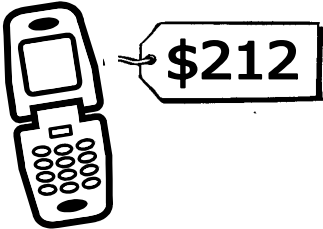


- 0
- 1
- 2
- 3

17. How many animals were **less** than 30 inches in length?

- 0
- 1
- 2
- 3

(4B)

18. Jack had \$225. Which is the only camera phone he has enough money to buy?

- 
- 
- 
- 

19. The fourth graders read between 375 and 459 pages last week. How many pages did they read?

- 364
- 372
- 440
- 462

(4B)

20. You have less than 645 and more than 630 named muscles in your body. How many named muscles do you have?

- 618
- 627
- 639
- 646

Mark studied the Great Lakes in Social Studies class. He made this chart showing the deepest point of four of the lakes.

| Name of Great Lakes | Depth (Feet) |
|---------------------|--------------|
| Erie | 1 1 6 |
| Huron | 8 5 0 |
| Michigan | 9 2 3 |
| Ontario | 3 9 3 |

21. How many lakes are **greater** than 500 feet in depth?

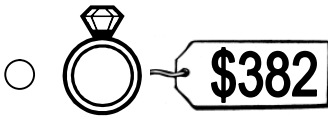
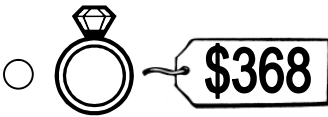
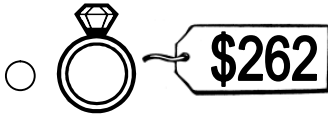
- 1
- 2
- 3
- 4

22. Which lake is greater than 870 feet deep and less than 970 feet deep?

- Erie
- Huron
- Michigan
- Ontario

(4B)

23. Mrs. Forcier spent between \$250 and \$350 dollars on a ring. Which ring did she buy?



24. Tommy had less than 486 Lego pieces in his bucket. He also had more than 350 pieces in his bucket. How many Lego pieces were in his bucket?

- 100
- 200
- 300
- 400

25. The zoo weighed their oldest lion. It weighted between 540 and 630 pounds. How many pounds did the lion weigh?

- 534
- 568
- 642
- 679

(4B)

The chart shows the weight (in pounds) of some of the heaviest turtles.

| TYPE OF TURTLE | WEIGHT (POUNDS) |
|-------------------|-----------------|
| Flatback Turtle | 1 7 1 |
| Green Sea Turtle | 7 8 3 |
| Hawksbill Turtle | 1 3 8 |
| Loggerhead Turtle | 5 6 8 |

26. How many turtles weigh less than 500 pounds?

- 0
- 1
- 2
- 3

27. How many turtles weigh more than the Green Sea Turtle?

- 3
- 2
- 1
- 0

28. How many turtles weigh between 100 and 300 pounds?

- 4
- 3
- 2
- 1

The following items are intended for practice only of the 4th Generation CMT content and format, not for instruction of concepts. Much teaching must precede the use of these items to ensure children's success both in mathematics and on the CMT.

Topic 4: Investigating 5-Digit Numbers - Revised from August 2005 Packet
Items from the Aug. 2005 packet have all been included, and many more items have been added.

PACKET 1 (Completed September 10, 2008)

- 1A: Solve problems involving 10/100 more/less than a given number.
- 1B: Identify alternative forms of expressing whole numbers < 1000 using expanded notation.
- 1D: Use place value concepts to identify and compare the magnitude and value of digits in 2- and 3-digit numbers.
- 4A: Order whole numbers < 10,000.
- 4B: Describe magnitude of 2- and 3-digit whole numbers.
- 4D: Identify points representing 2- and 3-digit numbers on a number line and vice versa..
- 11A: Identify a reasonable estimate to a problem, including estimating change from \$1, \$5 and \$10.

Topic 4 – Extra CMT Practice (Not related to Topic 4 in GWM)

- 4B: Describe magnitude of fractions, mixed numbers and decimals (tenths).
- 4C: Round 2- and 3-digit whole numbers in context.
- 4D. Identify points representing fractions (halves, thirds, fourths) and decimals (tenths) on a number line and vice versa.
- 10A: Identify the best expression to find an estimate.
- 14A: Solve problems involving time, elapsed time (minutes and hours) and calendars.
- 14B. Solve problems involving conversions of measures of time.
- 19A: Identify correct information from tables, bar graphs, pictographs, and charts.
- 19B: Construct bar and pictographs from data in tables and charts.
- 21A: Identify correct solutions to problems involving elementary notions of probability.
- 24A: Discrete math – solve number riddles, Venn Diagrams, etc.
- 25A: Solve extended numerical and statistical problems, including probability

Name _____

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(1B)

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- $400 + 6 + 1$
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- $30 + 90 + 50$
- $300 + 9 + 5$
- $300 + 90 + 5$ ***

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- $10 + 4$
- $100 + 4$ ***
- $100 + 400$

Name _____ Date _____ Part 2

(1D)

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(1D)

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- 1 ***
- 7
- 10
- 80

28 would become?
27
Difference of 1

F2. The value of 47 would change by how much if 7 were replaced by 9?

- 2 ***
- 7
- 9
- 16

49 ↑
47 ↑
Difference of 2

F3: The value of 52 would change by how much if 1 replaced 5?

- 1
- 5
- 40 ***
- 60

52***
12
40

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- 10 ***
- 30
- 40
- 70

47
37***
10

(1D)

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- 5
- 30
- 500

638
635***
3

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- 200
- 300 ***
- 400

493 ***
193
300

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- 50
- 500

289
259***
030 = 30

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| Royal Purple | 229 |
| Wild Strawberry | 247 |

1. If the colors were written in order from **least to greatest** number of votes, which color would be written last?

- Dandelion (286)
- Jungle Green *** (315)
- Royal Purple (229)
- Wild Strawberry (247)

2. Which color had the **greatest** number of votes?

- Dandelion (286)
- Jungle Green *** (315)
- Royal Purple (229)
- Wild Strawberry (247)

3. How many colors had **fewer** than 250 votes?

- 0
- 1
- 2 ***
- 3

(4A)

The table below shows the number of people living in four different towns in Connecticut in 2006.

| TOWN | POPULATION |
|---------|------------|
| Weston | 8846 |
| Redding | 8167 |
| Hebron | 8043 |
| Oxford | 9279 |

4. If the number of people living in each town were listed in order from **greatest to least**, which town would be listed third?

- Weston
- Redding ***
- Hebron
- Oxford

| | | | | |
|---------|---|---|---|-------|
| Oxford | 9 | 2 | 7 | 9 |
| Weston | 8 | 8 | 4 | 6 |
| Redding | 8 | 1 | 6 | 7 *** |
| Hebron | 8 | 0 | 4 | 3 |

5. Which list below shows the four towns listed in order from **least to greatest** population?

- Oxford, Hebron, Redding, Weston
- Hebron, Oxford, Weston, Redding
- Oxford, Weston, Redding, Hebron
- Hebron, Redding, Weston, Oxford ***

6. How many towns had **more** than 8,850 people?

- 1 ***
- 2
- 3
- 4

(4A)

The students in Grades 2, 3, 4, and 5 all collected pennies. The chart below shows how many pennies each grade collected.

| CLASS | NUMBER OF PENNIES |
|---------|-------------------|
| Grade 2 | 1018 |
| Grade 3 | 925 |
| Grade 4 | 1062 |
| Grade 5 | 987 |

7. If the number of pennies were listed in order from **least to greatest**, which class would be **third** on the list?

- Grade 2 ***
- Grade 3
- Grade 4
- Grade 5

| |
|---|
| <p>925 = 3rd Grade 987 = 5th Grade 1018 = 2nd Grade 1062 = 4th Grade</p> |
|---|

8. Which list shows the classes in order of pennies collected from **greatest to least**?

- Grade 3 Grade 5 Grade 2 Grade 4
- Grade 5 Grade 4 Grade 3 Grade 2
- Grade 4 Grade 2 Grade 5 Grade 3**
- Grade 2 Grade 3 Grade 4 Grade 5

9. How many grades collected more pennies than Grade 4?

- 0 ***
- 1
- 2
- 3

The table below shows how much money four people earned at their summer jobs.

| PERSON | MONEY EARNED |
|--------|--------------|
| Ida | \$5698 |
| Donna | \$4865 |
| Terry | \$4381 |
| Nancy | \$5299 |

10. Who earned the **greatest** amount of money?

- Ida ***
- Donna
- Terry
- Nancy

11. Who earned the **least** amount of money?

- Ida
- Donna
- Terry ***
- Nancy

12. How many people earned **less** than \$5000?

- 0
- 1
- 2 ***
- 3

The fourth graders voted for their favorite pets. Use the chart to answer question 13.

| Pets | Number of Votes |
|---------|-----------------|
| cats | 19 |
| dogs | 16 |
| birds | 23 |
| snakes | 21 |
| gerbils | 26 |

13. Which pet had **2 fewer** votes than snakes?

- cats ***
- dogs
- birds
- gerbils

14. Jill had less than 75¢ and more than 67¢. How much money did Jill have?

- 52¢
- 65¢
- 72¢ ***
- 85¢

15. Miss Satalino was driving between 27 and 35 miles per hour. How fast was she driving?

- 22 miles
- 24 miles
- 26 miles
- 28 miles ***

The table below shows the length of four animals. Use the table to answer questions 16 – 18.

| Animal | Length in Inches |
|-----------|------------------|
| Gibbon | 35 |
| Langur | 42 |
| Monkey | 30 |
| Orangutan | 49 |

15. Which animal was **greater** than 31 inches but **less** than 41 inches long?

- Monkey
- Gibbon ***
- Langur
- Orangutan

| |
|-----------|
| 30 |
| → 31 |
| 35 |
| → 41 |
| 42 |
| 49 |

16. How many animals were **greater** than 35 inches in length?


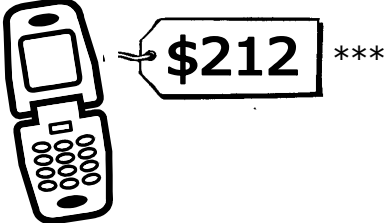


- 0
- 1
- 2 ***
- 3

17. How many animals were **less** than 30 inches in length?

- 0 ***
- 1
- 2
- 3

(4B)

18. Jack had \$225. Which is the only camera phone he has enough money to buy?

- 
- 
- 
- 

19. The fourth graders read between 375 and 459 pages last week. How many pages did they read?

- 364
- 372
- 440 ***
- 462

(4B)

20. You have less than 645 and more than 630 named muscles in your body. How many named muscles do you have?

- 618
- 627
- 639 ***
- 646

Mark studied the Great Lakes in Social Studies class. He made this chart showing the deepest point of four of the lakes.

| Name of Great Lakes | Depth (Feet) |
|---------------------|--------------|
| Erie | 1 1 6 |
| Huron | 8 5 0 |
| Michigan | 9 2 3 |
| Ontario | 3 9 3 |

21. How many lakes are **greater** than 500 feet in depth?

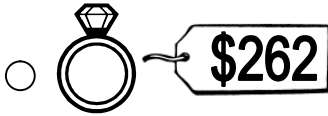
- 1
- 2 ***
- 3
- 4

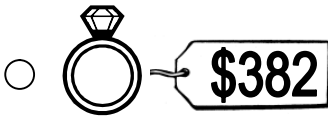
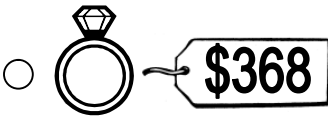
22. Which lake is greater than 870 feet deep and less than 970 feet deep?

- Erie
- Huron
- Michigan ***
- Ontario

(4B)

23. Mrs. Forcier spent between \$250 and \$350 dollars on a ring. Which ring did she buy?





24. Tommy had less than 486 Lego pieces in his bucket. He also had more than 350 pieces in his bucket. How many Lego pieces were in his bucket?

- 100
- 200
- 300
- 400 ***

25. The zoo weighed their oldest lion. It weighted between 540 and 630 pounds. How many pounds did the lion weigh?

- 534
- 568 ***
- 642
- 679

(4B)

The chart shows the weight (in pounds) of some of the heaviest turtles.

| TYPE OF TURTLE | WEIGHT (POUNDS) |
|-------------------|-----------------|
| Flatback Turtle | 1 7 1 |
| Green Sea Turtle | 7 8 3 |
| Hawksbill Turtle | 1 3 8 |
| Loggerhead Turtle | 5 6 8 |

26. How many turtles weigh less than 500 pounds?

- 0
- 1
- 2 ***
- 3

27. How many turtles weigh more than the Green Sea Turtle?

- 3
- 2
- 1
- 0 ***

28. How many turtles weigh between 100 and 300 pounds?

- 4
- 3
- 2 ***
- 1