180 Daily Middle School Word Problems Printables
Problem #1
Crackers contain 12 calories each and cookies contain 52 calories each. If you eat 5 crackers and 2 cookies, how many calories have you consumed in all?

Problem #2
Jenny bought a pair of pants for $19.99 and two shirts for $7.50 each. If she gave the cashier $40.00, how much change did she receive? (Assume no sales tax.)

Problem #3
184 sixth graders are going on a field trip. There needs to be one chaperone for every four students. If a bus can hold 50 people, how many busses will they need for the trip?
Problem #4
A video game you want costs $59.29 at Games R Us. The same game costs $45.88 online, but you also have to pay $6.35 in shipping and handling. How much money will you save if you buy the game online?

Name:__________________________ Date:________________

Problem #5
You and your friend share a package of candies. You eat twice as many candies as your friend. If there were 36 candies in the bag, how many did you eat?

Name:____________________________ Date:________________

Problem #6
A group of 5 friends went out to dinner. The total bill including the tax and tip came to $83.95. If they split the bill evenly, how much money does each person owe?

Name:____________________________ Date:________________
Problem #7
Molly gets an allowance of $25 per week. If she spends $3 each day Monday – Friday on lunch, and saves the rest, how much money will she have saved after 4 weeks?

Problem #8
Jamal is 5 inches taller than Ben and 2 inches shorter than Lacy. Lacy is 9 inches taller than her brother Zach. Zach is 4 ft 3 inches tall. How tall is Ben?

Problem #9
You buy 1.68 pounds of ground beef, 2.8 pounds of chicken, and 1.02 pounds of ground turkey. How much meat did you buy in all?
Problem #10
Billy ran \( \frac{2}{3} \) mi, Nancy ran \( \frac{3}{4} \) mi, and Heather ran \( \frac{5}{8} \) mi. How far did they run altogether?

Problem #11
We drove 235 miles in 4 hours. What is the average speed at which we were driving?

Problem #12
You need 2.5 pounds of potatoes. If each potato weighs 5 ounces, how many potatoes will you need?
**Problem #13**
You arrive at your friend’s house at 7:45 on Friday night and stay over. Your mom picks you up Saturday morning. The drive home takes 18 minutes. It is 9:22 AM when you get home. How long were you at your friend’s house?

**Problem #14**
Sandy plays tennis once every 6 six days. Jim plays once every 8 eight days. If they both played tennis today, in how many days will they play on the same day again?

**Problem #15**
Jarod made $12.75 mowing lawns one week. He made 3 times as much the following week. How much did he make altogether between the two weeks?
Problem #16
4 out of 100 toys were defective. How many toys would you expect to be defective if 5,000 were manufactured?

Problem #17
Cassandra needs $5\frac{1}{2}$ yards of fabric to make her dress. She has $3\frac{5}{6}$ yards already. How much more does she need?

Problem #18
I have a box that is 5 inches wide, 2 inches deep, and 4 inches tall that I want to fill with sand. How much sand can I fit inside my box?
Problem #19
You go to “Ice Cream Palace” for dessert one day. You can get vanilla, chocolate, or twist ice cream. You have a choice of rainbow sprinkles, chocolate sprinkles, or no sprinkles. You can get your ice cream in a cup or a cone and they each come in small, medium, and large sizes. How many different combinations are there in all?

Problem #20
Tickets to a hockey game cost $45. You and 3 of your friends decide to go together. How much will your tickets cost all together?

Problem #21
Your macaroni and cheese recipe calls for \(1\frac{2}{3}\) cups of milk. You’re having company and you need to quadruple the recipe. How much milk will you need?
Problem #22
You have 4 yards of ribbon. You need to wrap 6 equal sized boxes with the ribbon. How many feet of ribbon can you use on each box?

Problem #23
You flip a coin three times. What is the probability that you get heads all three times?

Problem #24
Your town got 3.44 inches of rain in June, 5.07 inches in July, and 4.28 inches in August. What was the average rainfall over these three months?
Problem #25

On a 20 question test, Sarah got 2 questions wrong. What percent of the test does she have correct?

Problem #26

4 out of 5 people have at least 1 pet at home. Out of 300 people, how many would you expect to not have any pets?

Problem #27

You spent $24 more than Pam. If you spent $82, how much money did Pam spend? Write and solve an equation.
Problem #28
A piece of paper is $8\frac{1}{2}$ inches wide. You tape 7 pieces of paper together to make a banner. How long is your banner?

Problem #29
Which is a better deal: 30 fluid ounces of shampoo for $3.55 or 50 fluid ounces of shampoo for $6?

Problem #30
Your bill comes to $23.55 at a restaurant. How much money should you leave for a 20% tip?
Problem #31
To rent a room for a party it costs $80 plus an additional $15 per hour. How much will it cost to rent a room for 5 hours?

Problem #32
You want to start a necklace making business. You spend $0.68 on string for each necklace and $0.25 on beads for each necklace. You sell your necklaces for $2.00 each. If you sell 30 necklaces, how much profit will you make?

Problem #33
Mrs. Bell has 24 students. Mr. Dole has 36 students in his class. The two classes are working on the same project and so the students in each class need to be split up into equally sized groups. What is the maximum number of students that can be in each group?
Problem #34
12 of the 30 students in Mrs. Smith’s class are boys. What percent of the class is made up of girls?

Problem #35
Laura wants to enlarge a picture she took at the beach to hang on her wall. The picture is 3 inches tall and 5 inches wide. If she wants the enlarged picture to be 2 feet wide, how tall will it need to be?

Problem #36
There were 3 full pizzas sitting on a counter. If Joe ate \( \frac{1}{4} \) of a pie, Rhonda ate \( \frac{3}{8} \) of a pie, and Chris ate 4 slices, how many slices of pizza were left? (Assume each pie is cut into 8 slices.)
Problem #37
Ron was able to run a mile in 7 minutes. Fred was only able to run 4,985 feet in 7 minutes. How much further did Ron run than Fred?

Problem #38
You draw a rectangular picture that is 8 inches wide. It is 3 times as long as it is wide. What is the area of the picture?

Problem #39
A recipe calls for 3 quarts of chicken broth. How many cans do you need to buy if each can contains 24 fluid ounces?
**Problem #40**

A box of 30 munchkins contains 12 chocolate munchkins and 10 powder munchkins. The rest are glazed. What is the probability that you will pick a glazed munchkin if you pick one out randomly?

**Problem #41**

Jessica drank $\frac{3\frac{1}{2}}{2}$ glasses of water. That was twice as much as her sister drank. How many glasses of water did Jessica’s sister drink?

**Problem #42**

Your dad just put up a border around your square bedroom that was 48 ft long. How many square feet of carpeting will you need to cover your bedroom floor?
Problem #43
You bought 8 dvds for $22 each and 4 dvds for $13 each. What is the average price you paid for each movie?

Problem #44
Jerry weighs 95 pounds. This is 15 pounds less than Mikey weighs. How much does Mikey weigh? Write and solve an equation.

Problem #45
Samantha spent $15.88 at a department store. She spent half as much at the bookstore as she did at the department store. She then spent $12.64 at a restaurant. She now has $33.85 left in her purse. How much did she have to begin with?
Problem #46
The total cost for 5 people to go to the movies was $47.55. How much did each individual ticket cost?

Problem #47
You have a box of 50 cookies. 18% of them are sugar cookies. How many cookies in the box are not sugar cookies?

Problem #48
A bag of 3 books weighs 0.75 pounds. How much will a bag of 10 books weigh?
Problem #49
Brighton is 15 kilometers due east of Kingsburg and 13 kilometers due west of Hamilton. How many meters apart are Kingsburg and Hamilton?

Problem #50
The temperatures in my town one week in December were 3°F, 10°F, 5°F, 18°F, 7°F, 3°F, and 3°F. What was the mean temperature that week?

Problem #51
A bowling alley charges $3 per shoe rental and $4 per person per game. If you and a friend bowl 3 games and each rent a pair of shoes, how much will it cost in all?
Problem #52
One store had a 40% off sale. Another store had a 1/3 off sale. Which one had a better deal? How much better was it?

Problem #53
I got 5 peaches for $3.95. How much did each peach cost?

Problem #54
\( \frac{1}{3} \) of your birthday cake is leftover from your party. If you eat \( \frac{1}{4} \) of the leftover cake, what fraction of the original birthday cake is left?
Problem #55
You have a triangular-shaped pennant hanging on your wall. The base of the pennant is 18 inches. The height is 1 foot. How much wall space does your pennant take up?

Problem #56
Heather's grandmother is 5 times as old as Heather. If her grandmother is 85 years old, how old is Heather? Write and solve an equation.

Problem #57
In science class the students need to measure a plant's growth over time. The first week, the plant was 3.04 cm tall. It tripled in size the second week, and then grew another 1.9 cm the third week. How tall was the plant after 3 weeks?
Problem #58
Hotdogs come in packages of 12. Hotdog buns come in packages of 8. What is the least number of packages of each Mary can buy so that she has an equal number of hotdogs and buns? How many hot dogs and buns will she have?

Problem #59
Jack gives half of his baseball card collection to Bobby. He then looses 5 of his remaining cards. He now has 13 baseball cards. How many cards did he start with?

Problem #60
George, Paul, Rita, Tom, and Wendy are standing in line at the movie theater. Wendy is in front of Paul but behind Rita. Tom is directly in front of Wendy. No two boys are standing next to each other in line. Front to back, in what order are they standing?
Problem #61
Monique bought a shirt for $22.80 during a 30% off sale. How much does the shirt cost when it is not on sale?

Problem #62
A cookie recipe calls for $3\frac{1}{3}$ cups of flour to make 4 dozen cookies. You only want to make 24 cookies, though. How much flour should you use?

Problem #63
If you drink 10 cups of water a day, how many quarts will you drink in a week?
Problem #64
A rectangular rug has an area of 40 square feet. It is 5 feet long. How many yards wide is it?

Problem #65
Four bags of peaches weigh 5.6 pounds, 3.9 pounds, 4.9 pounds, and 6.2 pounds. What is the median weight of the bags?

Problem #66
Aaron ate \( \frac{1}{2} \) as much pizza as David. If Aaron ate \( \frac{1}{4} \) of a pie, what fraction of the pie did David eat? Write and solve an equation.
Problem #67
Tonya drives for 5 hours at 55 mph. How far does she go?

Problem #68
You bought a blu-ray that cost $28.68 before tax. How much did you have to pay once the 7% sales tax was factored in?

Problem #69
A track is $\frac{1}{4}$ mile. You run around the track $6\frac{1}{2}$ times. How far did you run?
Problem #70
Sally drank 7 cups of water. Tammy drank 1.5 quarts. Who drank more? How much more did they drink?

Problem #71
You want to enclose your 144 sq ft square garden. How many feet of fencing should you buy?

Problem #72
You grew 3.8 inches since last year. If you are 61.2 inches tall now, how tall were you a year ago? Write and solve an equation.
Problem #73
You walk on a trail that is 3½ miles long on Monday. On Tuesday you walk half of a trail that is 5½ miles long. How much further did you walk on Monday than Tuesday?

Problem #74
8% of the students in the auditorium were sixth graders. If there were 16 sixth graders, how many students were in the auditorium in all?

Problem #75
Angelo bought 3 boxes of chocolate. One weighed .75 pounds, another weighed 10 ounces, and the third weighed 1½ pounds. How many ounces of chocolate did he buy in all?
Problem #76
Nina sells bracelets for $3 each, necklaces for $5 each, and anklets for $4 each. She sells 8 bracelets, 24 necklaces, and 16 anklets. How much money does she make?

Problem #77
I arranged my books so that I had the same number of books on each of my 4 shelves. If each shelf has 16 books on it, how many books do I have in all? Write and solve an equation.

Problem #78
Abby is 1.5 times as tall as she was when she was 3 years old. If she was 2.75 feet tall when she was 3, how tall is she now?
Problem #79
Shania is trying to wrap a box using as little wrapping paper as possible. If the box is 10 inches wide, 8 inches tall, and 8 inches long, exactly how much wrapping paper does she need to cover it?

Problem #80
Yvonne poured 520 milliliters out of a 2 liter bottle of soda. How many milliliters of soda are left?

Problem #81
You play soccer three times as long on Thursday as you did on Tuesday. If you play for 2 hours on Thursday, how long did you play on Tuesday? Write and solve an equation.
Problem #82
You are putting together goodie bags for your birthday party. You have 60 chocolate bars, 30 peanut butter cups, and 45 bags of hard candies. You want to use all of the candy and you want all of the goodie bags to be the same. What is the greatest number of goodie bags you can make? How much of each type of candy will be in each goodie bag?

Problem #83
A shirt that normally costs $18.00 is on sale for 20% off. There is a 6% sales tax. How much will you have to pay for the shirt in all?

Problem #84
Randy ran a mile in 6.2 minutes. Leslie ran a mile in 6.35 minutes. How many seconds longer did it take Leslie to run the mile than it took Randy?
Problem #85
A school has 550 students and 22 teachers. If 50 new students come to the school, how many new teachers must be hired to keep the student-teacher ratio the same?

Problem #86
Tina, Tamara, Tonya, and Tommy all work at the local ice cream parlor. Tina makes $9.00/hour, Tamara makes $9.25/hour, Tonya makes $8.75/hour, and Tommy makes $10.50/hour. What is their average salary (to the nearest cent)?

Problem #87
The 400 students that attend Jefferson Middle School were surveyed on their favorite subject. 20% of the students said that they like language arts the best. 25% said that science was their favorite class. \( \frac{1}{2} \) of the students like math class the best, and the rest said that social studies was their favorite class. How many students in the school like social studies the best?
Problem #88
Charlie is 4 more than twice as old as Frank. Frank is 3 years younger than Bob. If Bob is 9 years old, how old is Charlie?

Problem #89
Barb signed up for an art club. She had to pay $50 to sign up for the club and $8 each week that she attended it. If she spent a total of $90, how many weeks did she go to the club? Write and solve an equation.

Problem #90
Sal’s job pays $7.50 an hour for the first 8 hours he works a day and 1½ times that amount for each additional hour he works per day. Sal works 10 hours a day for 5 days. How much money does he make?
Problem #91
Sue ran 2.1 miles on Monday, 1.25 miles on Tuesday and Wednesday, 3.75 miles on Thursday, and 2.5 miles on Friday. How far did she run in all?

Problem #92
At soccer practice the team had to run around the soccer field 5 times. If the field is 100 yards long and 60 yards wide, how far did the team have to run?

Problem #93
Zach got 3 questions wrong on a 40 question test. What percent of the test did he get correct?
Problem #94

In a 3 kilometer relay race, Jerry ran the first 920 meters, Freddie ran the next 1,025 meters, and Kelly ran the rest of the way. How far did Kelly run?

Problem #95

John carried 3 large crates of milk into his store that weighed a total of 252 pounds. Each crate contained 10 gallons of milk. How many ounces does each gallon of milk weigh?

Problem #96

Steven's grades on his last 8 science tests were 96, 84, 73, 96, 92, 88, 81, and 88. What is the range of his grades? What is the mode?
Problem #97
Cory has to pick out an outfit to wear to school. He has 5 pairs of pants to pick from, 18 shirts, and 3 pairs of shoes. How many different outfits can Cory make?

Problem #98
Rob bought a board that was 9 ½ feet long. He cut off two pieces that were each 3 ¾ feet long. How much of the board is left?

Problem #99
The average temperature in Antarctica in November was -36°F. December’s average temperature was 19° warmer than November’s. What was the average temperature in December?
Problem #100
You bought a pizza with a diameter of 16 inches. If the pizza was cut into 8 equal slices and you ate one of them, what is the area of your slice (to the nearest tenth)?

Problem #101
How much wall space will a trapezoid-shaped poster take up if it is 2 feet tall, 1 1/2 foot wide on top, and 4 feet wide on the bottom?

Problem #102
If 5 boxes of macaroni and cheese cost $19.95, how much will you need to pay for 8 boxes?
Problem #103
Antonio weighs four pounds more than twice his brother's weight. If Antonio weighs 97 pounds, how much does his brother weigh? Write and solve an equation.

Problem #104
4 runners are competing in a race. In how many different orders can they finish the race?

Problem #105
Devon spent $23.45, $45.98, and $19.02 in three different stores. Dillon spent $30.99, $38.76, and $18.34 in the same three stores. Who spent more money? How much more did they spend?
Problem #106
Jerry lives $3 \frac{1}{2}$ miles away from Jake. Jerry and Jake decided to meet halfway between their houses and then walk to the park together. The park is located $\frac{3}{5}$ mile from the halfway point. How far did Jerry walk in all to get to the park?

Problem #107
Lee was 2 under par on the first hole, 3 under par on the second and third hole, 2 over par on the fourth, 5 over par on the fifth, and he made par exactly on the sixth and seventh holes. He was one under par on the eighth hole and 1 over par on the ninth. How many strokes above/below par was Lee after the first nine holes? Express your answer as an integer.

Problem #108
Julie bought a circular rug for her room with a diameter of 8 feet. If her rectangular room is 13 feet long and 14 feet wide, how much floor space is not covered by the rug? Round your answer to the nearest tenth.
Problem #109
Yvette was using a balance scale in science class. It took 3 apples to balance 15 cookies. How many cookies would she need to use to balance 5 apples?

Problem #110
Jenna bought tee shirts for $4.50 each and then sold them for a school fundraiser for $6.00 each. What is the percent of markup on the shirts?

Problem #111
Kasha drank 1 quart of water in 2 minutes. How many cups per second did she average?
Problem #112
Tia played a computer game 3 times. The median of her scores was 45. The average (mean) of her scores was 43. Her highest score was 50. What was her lowest score?

Problem #113
What is the probability that you get two even numbers if you roll two dice?

Problem #114
Deidre spent half of the money she made babysitting on new shoes. If she babysat for 6 hours and charged $8.75 per hour, how much money did she have left after shoe shopping?
**Problem #115**
You watched a movie that lasted $2 \frac{2}{3}$ hours and then went out to eat for $2 \frac{3}{4}$ hours. How many hours in all did the movie and dinner last? If the movie started at 3:00, what time did you finish eating?

**Problem #116**
Tameka ran one lap around a circular track that had a diameter of 20.5 feet. How far did she run? Round your answer to the nearest tenth.

**Problem #117**
How much wood do you need to build a frame around a picture that is 8 inches tall and 10 inches wide?
Problem #118
My checkerboard is 16 inches long by 16 inches wide. There are 64 playing squares on the board. What is the area of each playing square on the board?

Problem #119
The length to width ratio of wide-screen televisions is 16:9. If a TV is 30 inches long, how wide is it?

Problem #120
Meghan went to the mall and then out to eat with her friends. At the restaurant, Meghan spent 3 dollars more than \( \frac{1}{2} \) the amount that she spent at the mall. If she spent $13.50 at the restaurant, how much did Meghan spend at the mall? Write and solve an equation.
Problem #121
Sandra bought an mp3 player that typically costs $120 when it was on sale for 20% off. She had to pay 7% sales tax on the sale price. How much did Sandra pay for the mp3 player in all?

Problem #122
Jan needs 1.2L of rubbing alcohol for her Science experiment. She already has 900 mL of rubbing alcohol. How much more does she need?

Problem #123
The McMahan children are 3, 24, 18, and 9 years old. What is the median of their ages? What is the mean?
Problem #124
A recipe that serves 8 calls for 2 ½ cups of flour. How many cups of flour should you use if you want to adjust the recipe to make 12 servings?

Problem #125
Laney bought a cup of coffee and two cookies at her local coffee shop. The coffee cost $1.89. She got $1.23 back as change from the $5.00 bill she gave the cashier. How much did each cookie cost? (Assume no sales tax).

Problem #126
Sarah hiked a path that took her from 34 feet below sea level to 52 feet above sea level. What was the change in her elevation?
Problem #127
Sam drew a picture of a snowman by drawing three circles on top of each other. The bottom circle had a radius of 3 inches, the middle circle’s diameter was 4 inches, and the top circle had a radius of 1 inch. Find the total area of Sam’s snowman to the nearest square inch.

Problem #128
The police taped off a rectangular-shaped area around a crime scene that was 12 feet wide by 11 feet long. How much yellow caution tape did they use?

Problem #129
Gale put a 2 inch wide frame around a rectangular picture that was 8 inches x 10 inches. How much wall space will the framed picture take up?
Problem #130
Cassandra paid $23 for 4 pounds of ground beef. At that rate, how much will she pay for 5 pounds?

Problem #131
Greg made 1 more than twice as many baskets at his game on Wednesday than he made at his game on Monday. If he made 11 baskets on Wednesday, how many did he make on Monday? Write and solve an equation.

Problem #132
Ben left a 20% tip for his waiter. If he left $4.20, how much did his bill come to before the tip?
Problem #133
Pedro walks 2.4 kilometers to get to school every day. How many meters does he walk in a week if he walks to school and home from school all 5 weekdays?

Problem #134
Tyler’s doctor recommended that he drink 14 fluid ounces of milk each day. If he follows his doctor’s orders, how many gallons of milk will Tyler drink in the month of December? Round your answer to the nearest tenth.

Problem #135
Janie reaches into her sock drawer without looking. If she has 10 loose white socks, 4 blue socks, 2 red socks, and 4 black socks in the drawer what is the probability that both the first and second sock that Janie pulls out will be black? (She does not replace the first sock before picking the second one).
Problem #136
Shuna bought a dress that cost $58.50. She had a coupon for 20% off and a $30 gift card for the store. How much money did she have to pay out of pocket for the dress?

Problem #137
Rishab forgot to study for his math quiz! The quiz contains 3 multiple choice questions and each question has 4 answer choices. If Rishab chooses a random answer for each of the 4 questions, what is the probability that he guesses the correct answer for all 3 questions?

Problem #138
Wayne stopped 28 out of 32 shots on net. How many goals would you expect Wayne to allow on 200 shots on net?
Problem #139
The temperature in Unionville is 18° colder than the temperature in Harristown. Harristown’s temperature is 4° warmer than Patterson’s temperature. If it is -8°F in Patterson, what is the temperature in Unionville?

Problem #140
Anna is making a recipe that calls for $\frac{1}{2}$ teaspoon of sugar. How many tablespoons of sugar will she need if she quadruples the recipe? (1 tablespoon = 3 teaspoons)

Problem #141
Claude is filling a cylindrical bucket with water. If the pail has a diameter of 20 cm and is 25 cm tall, how much water can the bucket hold? (Use 3.14 for pi).
Problem #142
Donna bought 5 pounds of candy for $16.05. What is the average cost per pound of the candy?

Problem #143
You are making a soup recipe that calls for 2 ¾ cups of chicken broth to make 4 servings. If you want to make the soup for 6 people, how much chicken broth will you need?

Problem #144
Mrs. Tavares put the names of all of her students in a bag. If she picks a name at random, the probability that it will be a girl’s name is $\frac{3}{7}$. What are the odds in favor of Mrs. Tavares picking a boy’s name out of the bag?
**Problem #145**

Scott went out to eat with 4 friends. Their bill came to $52. They decided to leave the waitress a 20% tip. If they split the total bill (including the tip) evenly, how much money did each person pay?

**Problem #146**

Allyson bought a bag of cookies. She ate 3 and then gave half of the remaining cookies to her friend. She now has 5 cookies left. How many cookies were in the bag originally? Write and solve an equation.

**Problem #147**

Dan is 5’ 7” tall, Matt is 64” tall, and Tommy is 5’ 11” tall. What is the mean of their heights?
Problem #148
Katie makes $6.50 per hour plus 8% commission on sales. If she works 8 hours on Saturday and sells $500 worth of merchandise, how much money will Katie make?

Problem #149
Jack’s basement is at an elevation of -14 feet. His roof is at an elevation of 35 feet. What is the total distance from the floor of Jack’s basement to his roof?

Problem #150
If you put a ball with a radius of 4 inches inside a cubical box with sides of 8 inches each, how much empty space will there be in the box? (Use 3.14 for pi and round your answer to the nearest cubic inch).
Problem #151
Christian and Tom had a competition to see who could make a better paper airplane. Christian’s airplane flew 4.2 meters. Tom’s paper airplane flew 53 decimeters. Who’s airplane went farther? How much farther did it fly?

Problem #152
Your parents gave you $0.35 on Sunday and then gave you twice as much money on Monday as they did on Sunday. On Tuesday, they gave you twice as much money as they gave you Monday. The pattern continued for a week. How much money did your parents give you on Saturday?

Problem #153
Danielle read 5 more than half as many pages as Lisa. If Danielle read 17 pages, how many pages did Lisa read? Write and solve an equation.
Problem #154
If you run for 30 minutes at a speed of 8 miles per hour, how many feet will you have run?

Problem #155
Plain tee shirts cost $6.99 each and printed tee shirts cost $8.35 each. How much more money would it cost to buy 2 printed tee shirts and 1 plain tee shirt than it would be to buy 2 plain tee shirts and 1 printed tee shirt?

Problem #156
The speed of light is approximately $3.0 \times 10^8$ meters per second. How far does light travel in 8 seconds? Write your answer in scientific notation.
Problem #157
A dollar bill is approximately 6.14 inches long. About how long would a line of 20 one-dollar bills positioned end-to-end be in yards? Round your answer to the nearest tenth.

Problem #158
Brittney scored 2 goals in her first soccer game and 3 goals in her second game. She didn’t score at all in her third or fourth games, scored 3 in the fifth game and then proceeded to score 1 goal in each of her next two games. Find Brittney’s average goals per game for the first seven games to the nearest tenth. If she wants to improve her average to 2 goals per game, how many goals must she score in her eighth game?

Problem #159
You drank \( \frac{1}{4} \) of a one liter bottle of apple juice. How many milliliters of apple juice are left in the bottle?
Problem #160
Janine spent \( \frac{1}{4} \) of her money on lunch and another \( \frac{3}{10} \) of her money on dinner. If she had $70 to begin with, how much money does she have left?

Problem #161
If you pick a card from a standard deck of cards, keep it, and then pick another card, what is the probability that both cards will be spades?

Problem #162
Sam drives 155 miles in 2 \( \frac{1}{2} \) hours. At that same rate, how far would Sam drive in 4 hours?
Problem #163
The scores for six of the golfers competing in the tournament were +5, -3, +9, -5, +13, and +1. What is the difference between the highest and lowest scores?

Problem #164
Dominic's recipe for homemade custard calls for 56 fluid ounces of milk, but he only has 1 quart of milk in his refrigerator. How many more cups of milk does Dominic need to make the custard?

Problem #165
Cecilia needs to cut a piece of cardboard into three equal-length pieces. If the cardboard is 14 5/8 inches long, how long will each piece be?
Problem #166
Mrs. Richard’s 7th grade class is made up of 25 students. Her class last year consisted of 28 students. Find the percent of decrease in Mrs. Richard’s class size. Round your answer to the nearest tenth.

Problem #167
How many books 2.2 inches wide fit on a shelf that is 36 inches long? How much shelf space will be left?

Problem #168
Each side of Barbara’s square garden is 332 centimeters long. How many meters of fencing will she need to enclose the garden?
Problem #169
Jason spent \( \frac{3}{5} \) of his money on books and \( \frac{1}{3} \) of his money on clothes. What fraction of his money does Jason have left?

Problem #170
A diver descends 35 feet per minute below the surface of the water. Use an integer to represent the diver’s depth after \( \frac{1}{5} \) of an hour.

Problem #171
A group of 9 elephants weigh a combined \( 1.638 \times 10^4 \) kilograms. What is the average weight of each elephant? Express your answer in Scientific Notation.
Problem #172
A picture that is 5 inches by 7 inches is surrounded by a frame that is 1 \(\frac{1}{2}\) inches wide all around. What is the perimeter of the picture and frame combined?

Problem #173
Grayson can read 18 pages of a book in 30 minutes. At that rate, how long would it take Grayson to read 150 pages? Express your answer in hours and minutes.

Problem #174
If you already have $235 saved and you get $12 allowance each month, how long will it take for you to save enough money to buy a new bike that costs $295? Write and solve an algebraic equation.
Problem #175
2 of the 15 students in Mrs. Hand’s class have no pets, 7 students have one pet, 4 have two pets, 1 student has 3 pets, and 1 student has five pets. What is the average number of pets in Mrs. Hand’s class? Round your answer to the nearest tenth.

Problem #176
Jeff noticed that the base of his triangular poster was twice as big as the height. If the area of the poster is 36 square inches, how high is the poster?

Problem #177
At the pizza parlor, Adrienne had a choice of 4 different sizes and 12 different toppings. She also had a choice of red or white pizza. How many different pizza pies could Adrienne order?
Problem #178
Aiden started his day with $38.92 in his pocket. He dropped a $5 bill, spent $6.95 on breakfast, and bought a can of soda for $0.75. Aiden bought an ice cream cone for himself and one for his friend, each of which cost $2.68. How much money did Aiden have left at the end of the day?

Problem #179
Of the 275 students graduating from Lakeview High, 84% are planning to go to college. How many students are not planning to go to college?

Problem #180
Admission to a local amusement park is $23 for adults and $17 for children. Mr. and Mrs. Bower went to the amusement park with their children. If they spent $114 in all, how many children went to the amusement park? Write and solve an algebraic equation.