WORKKEYS MATH PRACTICE TEST

1. You work for a major delivery company. You are to deliver 4 shipments of boxes of music CDs. The shipments consist of 48 boxes, 59 boxes, 182 boxes, and 17 boxes, respectively. How many total boxes are you going to deliver?

A. 65

B. 124

C. 289

D. 306

E. 310

2. You are the head counselor at a summer camp. There are 264 children attending the camp, and you need to split them into teams of 11. How many teams can you form?

A. 24

B. 48

C. 253

D. 275

E. 2,904

3. During the winter months, one snow plow can clear 8 neighborhoods in one day. If 72 snow plows are all plowing different parts of the city, how many neighborhoods will be cleared in one day?

A. 9

B. 64

C. 80

D. 576

E. 872

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4. A charter tours bus driver can fit an average of 54 passengers on his bus for each tour. He is scheduled to run 9 tours over the next month. At this rate, how many passengers will he give tours to on his bus?

A. 6

B. 45

C. 63

D. 486

E. 954

5. A group of 350 activists needs to distribute a total of 94,500 flyers door-to-door on Saturday. Assuming that the work is divided evenly among the group, how many flyers must each activist distribute?

A. 27

B. 270

C. 2,700

D. 94,150

E. 94,500

6. Scott and his wife send tins of a dozen cookies to their friends as holiday gifts. They mailed out 33 dozen on Monday and 11 dozen on Tuesday. How many dozens of tins have they mailed out in total?

A. 3

B. 11

C. 22

D. 33

E. 44

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7. The company that you work for produces metal alloys. The alloy you are working on requires a makeup of 20% iron and 80% nickel, by weight. How many grams of iron should be added to 40 grams of nickel?

A. 8

B. 10

C. 20

D. 32

E. 160

8. You want to apply mulch to a specific area of your yard, and have determined you need 10 gallons of it for the area. After discussion with an expert, you've determined you want to include some herbicide in your mulch to reduce weed growth. The herbicide you found has directions to apply a 55 ounce bottle to every 3 gallons of mulch. How many ounces of herbicide do you need to prepare all of your mulch?

A. 512

B. 1813

C. 165

D. 18313

E. 550

9. You work as a teller at a bank, and a young customer arrives with three jars of change to be deposited in her account. The first jar contains $12.90, the second contains $8.75, and the third has $3.50. The customer asks for $6 in bills from the change as a withdrawal. How much total is deposited after the withdrawal?

A. $10.40

B. $15.65

C. $19.15

D. $25.15

E. $31.15

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10. You have started a contract job for a large company in another state. The total payment you negotiated for this contract is $26,500. The company has agreed to pay you 25% upfront per the contracted agreement. How much will the company owe you after this first payment comes through?

A. $6,625

B. $19,875

C. $21,200

D. $24,000

E. $33,125

11. The photography studio where you work sold 135 lithograph prints last week, and threw out 12 prints due to printing errors. The studio paid $3.40 to print each lithograph, and collected $8.50 for each one sold. What was the total revenue earned by the studio last month?

A. $627.30

B. $647.70

C. $688.50

D. $749.70

E. $606.90

12. You are laying tile on a bathroom floor. You don't like the size of the tiles you bought because they are too large. So, you attempt to trim 516 inch off each side of a sample tile, but the resulting tile was still too large. You take a different tile and trim 12 inch off each side, but this time the resulting tile was too small. Which of the following trim sizes fall between the above two?

A. 916 inch

B. 14 inch

C. 1732 inch

D. 18 inch

E. 716 inch

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13.   A new espresso coffee maker is being used at the coffee shop where you work. It heats water to 122°F in a matter of seconds. What is the equivalent Celsius reading of this temperature?

A. 60°C

B. 50°C

C. 85.556°C

D. 162°C

E. 251.6°C

14. You are applying fondant to the exterior edges of a large rectangular cake. If the cake's dimensions are 21.9 inches long by 18.3 inches wide, how many inches of fondant do you need?

A. 40.2

B. 58.5

C. 62.1

D. 80.4

E. 400.77

15. You are getting on a plane to visit family 1200 miles away. The plane you are boarding will travel on average 500 miles per hour. How long will the trip take you?
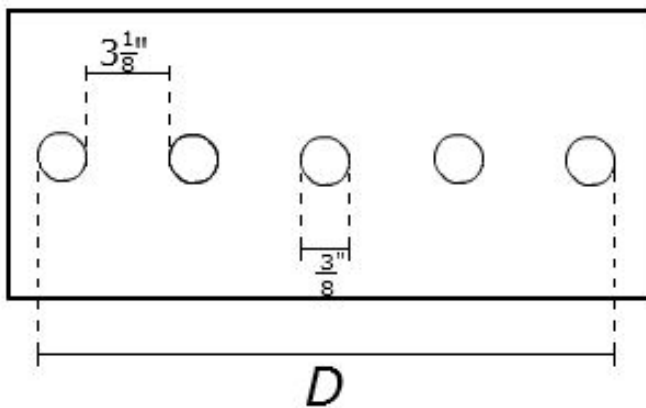
A. 24 minutes

B. 3 hours

C. 2 hours

D. 2 hours 24 minutes

E. 2 hours 11 minutes

WORKKEYS MATH PRACTICE TEST

16. You handle schedules for a department store. On average, seven cashiers and ten floor assistants can take care of 84 customers per hour in a ten hour day. Tomorrow is a holiday and the store managers are expecting 2940 customers due to a mailing. If the cashiers work in five hour shifts and floor assistants work in ten hour shifts, how many employees will need to work tomorrow?

A. 17

B. 294

C. 59

D. 60

E. 84

17. The diagram below is the top down design of the front of a bird house with five holes where columns attach. You are building this bird house and are double checking all of your measurements. What is the length in inches of D?

A. 1078

B. 1114

C. 14

D. 1438

E. 2058

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18. You work in a lab testing fertilizer treatments by measuring the growth of tomato plants. The last measured total height of the 48 plants you are currently measuring is 240 inches. You are now measuring each plant and they have, on average, grown to 8 inches. What is the percentage of growth for the entire group of plants?

A. 37.5%

B. 40%

C. 60%

D. 62.5%

E. 100%

19. You work for a rock-climbing gym and need to purchase 330 feet of climbing rope to arrive in three days for an event. The online retailer SportsStuff.com charges $5.50 per yard of rope and offers free three-day shipping. The same rope at OutdoorHaven.com costs $5.20 per yard, plus a $12.25 rush delivery fee. What is the cheapest price you can pay for the rope you need for your gym?
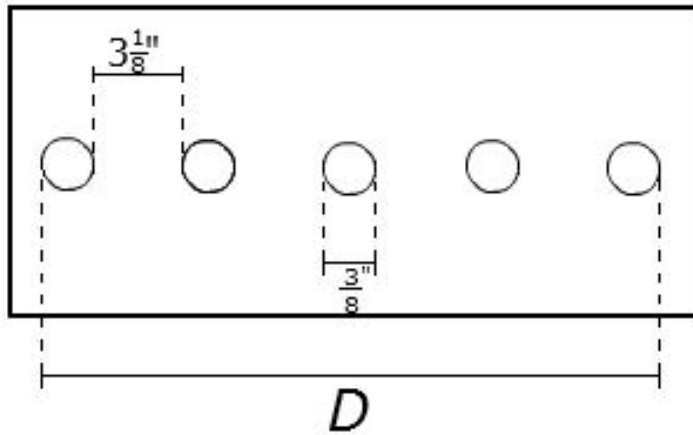
A. $584.25

B. $572.00

C. $605.00

D. $1,728.25

E. $1,815.00

20. You want to take your family on a two week vacation this summer, which is 5 months away. The total cost for the vacation is $2,245. You work extra hours at your job at $11.25 per hour. Fifteen percent of your earnings go to taxes, and the rest goes toward the expenses for this vacation. Over the next five months, what is the fewest number of extra hours per month you could work and still make enough money to take this vacation?

A. 35   C. 47   E. 235

B. 40   D. 200

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21. You are working for a landscaping company and are sprucing up a customer's front yard with new sidewalk slabs and new strips of grass. The dimensions are as follows:

All estimates are made by rounding material dimensions up to the next full unit. Sidewalk slabs cost $25.99 per square yard, and the grass strips cost $4.00 per square foot. What is the estimated total cost, rounded up to the nearest dollar?

A. $302

B. $2,188

C. $2,264

D. $2,342

E. $3,720

22. You are waxing the floor of an elementary school gymnasium. The dimensions of the gym are 120 feet by 90 feet. Each 32-ounce bottle of wax will cover 500 square feet of floor. How many bottles of wax do you need to complete the job?

A. 1

B. 11

C. 21

D. 22

E. 338

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23. You work wrapping gifts for the customer service office of a large department store during the holiday season. You need to wrap a 50" plasma TV, a Blu-ray player, and 6 DVDs for a customer. The TV requires 934 feet of wrapping paper, the Blu-ray player requires 115 feet of paper, and each DVD requires 13 feet of paper. How many feet of paper are needed to complete this job?

A. 121920

B. 111760

C. 101920

D. 1134

E. 314

24. You work for a catering company, and a college has hired the company to provide pies for its commencement ceremony. The college is estimated to need approximately 200 pies for the event. Fifteen percent of these pies must be custard pies. The remaining pies are divided equally between 10 different kinds of fruit pies; 3 stone fruit pies, and the other 7 are various berry and apple pies. The custard pies cost $35, the berry and apple pies cost $24, and the stone fruit pies cost $17. What is the total cost for all of the pies?

A. $1,917

B. $3,723

C. $3,906

D. $3,940

E. $4,773

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Answer Key

1. D
2. A
3. D
4. D
5. B
6. E
7. B
8. D
9. C
10. B
11. B
12. E
13. B
14. D
15. D
16. E
17. D
18. C
19. A
20. C
21. D
22. D
23. A
24. E