

Level D - Form 1 - Applied Mathematics: Computation in Context

Sample Question

How much change will you get if you spend \$2.49 and pay with a \$5.00 bill?

- A \$1.51
- B \$1.61
- C \$2.51
- D \$2.61

Level D - Form 1 - Applied Mathematics: Computation in Context

The sign shows the rates charged by the Rub-a-Dub Laundry. Study the sign. Then do Numbers 1 through 5.

RUB-A-DUB LAUNDRY
Quality, Excellence, and Service

RATES

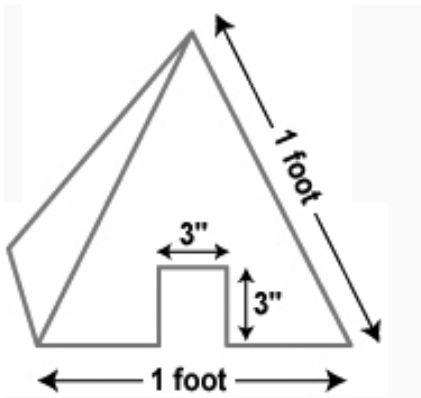
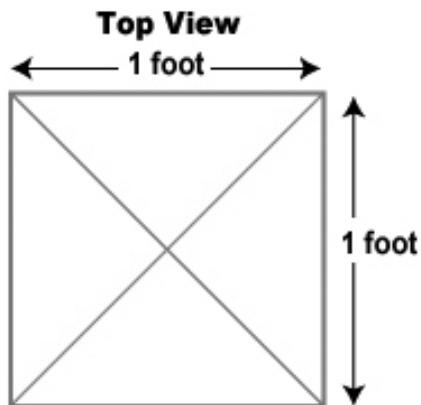
<u>Garments</u>	<u>Wash and Dry</u>	<u>Iron</u>	<u>Dry Clean</u>
1-9	\$0.10 each	Add \$0.50 each	\$2.00 each
10-24	\$0.10 each	Add \$0.40 each	\$1.75 each
25-49	\$0.10 each	Add \$0.30 each	\$1.50 each
50-99	\$0.05 each	Add \$0.20 each	\$1.25 each
100 or more	\$0.05 each	Add \$0.10 each	\$1.00 each

\$1.00 per repair for mending
\$2.00 charge for all lost claim tickets
Garments will not be held for more than 1 month.

- Kendra brought 14 shirts to be washed and dried. How much will she be charged?
 - \$0.10
 - \$1.40
 - \$14.00
 - \$11.40
- If Kendra has her 14 shirts ironed as well as washed and dried, how much more will she pay?
 - \$4.00
 - \$5.60
 - \$4.20
 - \$7.00
- Esther had four dresses dry-cleaned and four shirts washed, dried, and ironed. How much will she be charged before tax?
 - \$8.00
 - \$10.00
 - \$10.40
 - \$8.40
- Fred has six pairs of pants to be dry-cleaned. His daughter has seven dresses to be dry-cleaned. How much will they save if they bring everything in together?
 - \$26.00
 - \$3.25
 - \$4.35
 - \$22.75

5. Hiram's cleaning bill came to \$14.25. He paid with a \$20.00 bill. How much change should he receive?
- A \$5.75
 - B \$4.75
 - C \$6.75
 - D \$5.85

The diagrams show a cardboard pyramid Ms. Garza's class is building. Each of the four faces is the same size. One face has a small door. Study the diagrams. Then do Numbers 6 through 8.



6. Students are gluing yarn around the edges of their pyramids, including the base but **not** around or under the door. How much yarn is needed to decorate a single pyramid?

F $7\frac{1}{4}$ ft

G $7\frac{3}{4}$ ft

H $8\frac{1}{4}$ ft

J $8\frac{3}{4}$ ft

7. There are 24 students in the class. If one-fourth of the students were absent that day, how many students worked on the model?

A 4

B 6

C 18

D 20

8. Ms. Garza figures that the project will cost \$32 and that one-eighth of that amount will be spent on cardboard. How much does the cardboard cost?

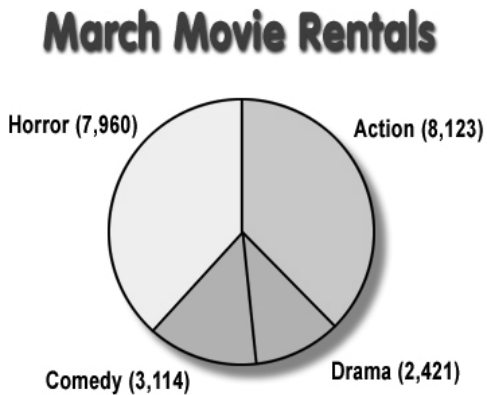
F \$4.00

G \$6.00

H \$5.00

J \$7.00

The graph shows the number of movies a store rented out in March. Study the graph. Then do Numbers 9 through 11.

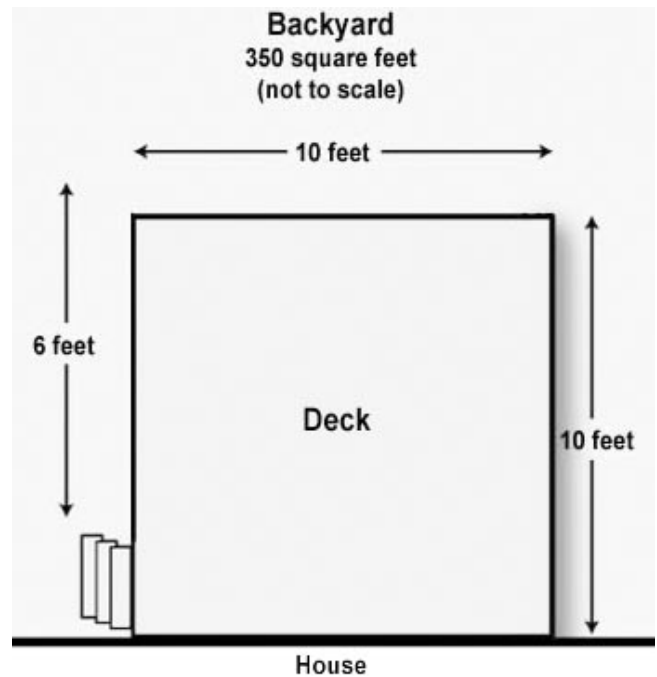


9. About how many dramas did the store rent per week?
 - A 100
 - B 500
 - C 600
 - D 800

10. The store rented exactly half as many comedies in April as it did in March. How many comedies did it rent in April?
 - F 6,228
 - G 3,980
 - H 1,557
 - J 1,552

11. How many action and horror movies did the store rent in March?
 - A 10,544
 - B 16,083
 - C 11,237
 - D 13,495

The diagram shows a plan for the deck Herman is building in his backyard. Study the diagram. Then do Numbers 12 through 18.



12. How much of the backyard will **not** be taken up by the deck?
 - F $\frac{1}{35}$
 - G $\frac{2}{35}$
 - H $\frac{2}{7}$
 - J $\frac{5}{7}$

13. Herman is building the floor of the deck with planks that are 6 inches wide, 2 inches thick, and 5 feet long. How many planks will he need to finish the floor of the deck?
 - A 10
 - B 12
 - C 20
 - D 40

14. The railing of the deck will be made of three beams plus supports. How many 6-foot beams will Herman need to construct the railing?

- F 5
- G 13
- H 18
- J 6

15. One quart of deck finish covers 10 square feet. What fraction of the deck does one quart cover?

- A $\frac{1}{100}$
- B $\frac{1}{10}$
- C $\frac{9}{10}$
- D $\frac{6}{10}$

16. During one trip to the lumberyard, Herman spent \$775 on lumber and \$25 on nails, screws, and small tools, plus 5% sales tax. How much was the sales tax for his purchase?

- F \$4.00
- G \$25.00
- H \$40.00
- J \$38.75

17. Herman figures that it would have cost \$2,500 to have a professional build the deck, but he spent only \$1,500 on materials. What fraction of the professional fee did he save?

- A $\frac{2}{5}$
- B $\frac{2}{3}$
- C $\frac{1}{3}$
- D $\frac{3}{5}$

18. Herman figures that during this project he spent his time in the following ways:

- 35% reading about how to build the deck
- 10% digging post holes
- 20% building the frame
- 10% building the floor
- 7% building the stairs
- 5% applying the deck finish

What fraction of his time did he spend digging the post holes and building the frame?

- F $\frac{1}{15}$
- G $\frac{1}{10}$
- H $\frac{1}{5}$
- J $\frac{3}{10}$

The Greens just bought a new refrigerator. They set aside \$750 to buy it. After shopping for a while, they finally decided on one. It was originally priced at \$800, but they bought it on sale for \$700. Use this information to do Numbers 19 through 20.

19. What percentage was the refrigerator marked down?
- A 7.8%
 - B 12.5%
 - C 80%
 - D 87.5%

20. About what percent of the amount set aside did the Greens spend?
- F 7%
 - G 87.5%
 - H 93%
 - J 12.5%