

#1

Choose the best answer

Last Wednesday, two friends met up after school to read the book they were both assigned in Literature class. Ashley can read 10 pages per minute, and she had already read 11 pages. Makayla, who has a reading speed of 8 pages per minute, had read 23 pages. Eventually they had read the same number of pages. How many pages had each of them read at that point? How long did that take?

- 76 pages after 7 minutes 71 pages after 6 minutes
- 66 pages after 6 minutes 67 pages after 6 minutes

Show your work

#2

Choose the best answer

Gavin is going to ship some gifts to family members, and he is considering two shipping companies. The first shipping company charges a fee of \$6 to ship a medium box, plus an additional \$4 per pound. A second shipping company charges \$22 for the same size of box, plus an additional \$3 per pound. At a certain weight, the two shipping methods will cost the same amount. What is that weight? How much will it cost?

- 17 pounds would cost \$73 16 pounds would cost \$70
- 16 pounds would cost \$74 16 pounds would cost \$69

Show your work

#3

Choose the best answer

Mia uses rechargeable batteries. One battery has already been charged 23 percent and charges at a rate of 4 percent an hour. Mia starts charging another battery that still has 11 percent of its charge left, and charges at a rate of 7 percent an hour. How long will it be until both batteries are at the same charge percentage? What percentage will they have charged?

- 38% after 4 hours 39% after 4 hours
- 36% after 4 hours 40% after 5 hours

Show your work

#4

Choose the best answer

Emma has just unplugged her fridge so it can defrost. The freezer is at 17 degrees and warms up at 16 degrees an hour.

The fridge part is at 19 degrees and rises 15 degrees per hour. How many hours will it take for both the fridge and the freezer to be the same temperature? What is the temperature change in that time span?

- 45 degrees in 3 hours 48 degrees in 2 hours
 47 degrees in 2 hours 49 degrees in 2 hours

Show your work

#5

Choose the best answer

Angela has just unplugged her fridge so it can defrost. The freezer is at 15 degrees and warms up at 14 degrees an hour.

The fridge part is at 17 degrees and rises 13 degrees per hour. How many hours will it take for both the fridge and the freezer to be the same temperature? What is the temperature change in that time span?

- 42 degrees in 2 hours 43 degrees in 2 hours
 44 degrees in 3 hours 41 degrees in 2 hours

Show your work

#6

Choose the best answer

Farmer Kevin has harvested 19 tonnes of wheat so far, and can harvest 12 tonnes per day. His neighbor Farmer Samantha can harvest 11 tonnes per day, and has 24 tonnes of wheat already in stock. If they harvest as much as they can every day, how many days will it take for them to have the same amount of wheat? How many tonnes of wheat will they have both harvested?

- 76 tonnes after 6 days 75 tonnes after 5 days
 79 tonnes after 5 days 81 tonnes after 5 days

Show your work

#7

Choose the best answer

Julia has just unplugged her fridge so it can defrost. The freezer is at 21 degrees and warms up at 2 degrees an hour. The fridge part is at 14 degrees and rises 9 degrees per hour.

How many hours will it take for both the fridge and the freezer to be the same temperature? What is the temperature change in that time span?

- 23 degrees in 1 hours 21 degrees in 1 hours
 19 degrees in 2 hours 26 degrees in 1 hours

Show your work

#8

Choose the best answer

Dale and Chuck are training to run a marathon. Madeline, their trainer, showed up half way through their training session and saw that Dale had completed 16 laps and was setting a pace of 5 laps per hour, and Chuck was done 18 laps and was setting a pace of 4 laps per hour. If they both tied in the end, how long did it take them to finish?

- 26 laps took them 2 hours 21 laps took them 2 hours
 30 laps took them 3 hours 27 laps took them 2 hours

Show your work

#9

Choose the best answer

A fashion photographer needs to hire a stylist to prepare his models for a shoot. Ava charges \$14 for showing up plus \$5 per hour. Aiden charges \$10 to show up plus \$7 per hour.

Given the expected duration of his photo shoot, either stylist would cost him the same amount. What would the cost be? What would the duration be?

- \$29 for 2 hours \$27 for 3 hours
 \$22 for 2 hours \$24 for 2 hours

Show your work

#10

Choose the best answer

Dale and Chuck are training to run a marathon. Matthew, their trainer, showed up half way through their training session and saw that Dale had completed 24 laps and was setting a pace of 3 laps per hour, and Chuck was done 9 laps and was setting a pace of 4 laps per hour. If they both tied in the end, how long did it take them to finish?

- 74 laps took them 15 hours 73 laps took them 16 hours
 70 laps took them 15 hours 69 laps took them 15 hours

Show your work

#11

Choose the best answer

Jack is going to ship some gifts to family members, and he is considering two shipping companies. The first shipping company charges a fee of \$7 to ship a medium box, plus an additional \$6 per pound. A second shipping company charges \$15 for the same size of box, plus an additional \$2 per pound. At a certain weight, the two shipping methods will cost the same amount. What is that weight? How much will it cost?

- 3 pounds would cost \$24 2 pounds would cost \$19
 2 pounds would cost \$23 2 pounds would cost \$15

Show your work

#12

Choose the best answer

Kaylee has just unplugged her fridge so it can defrost. The freezer is at 11 degrees and warms up at 10 degrees an hour. The fridge part is at 23 degrees and rises 8 degrees per hour. How many hours will it take for both the fridge and the freezer to be the same temperature? What is the temperature change in that time span?

- 71 degrees in 6 hours 66 degrees in 7 hours
 75 degrees in 6 hours 68 degrees in 6 hours

Show your work

Question	Answer
#1	choice 2
#2	choice 2
#3	choice 2
#4	choice 4
#5	choice 2
#6	choice 3
#7	choice 1
#8	choice 1
#9	choice 4
#10	choice 4
#11	choice 2
#12	choice 1