

#1

Choose the best answer

Hannah has just unplugged her fridge so it can defrost. The freezer is at 17 degrees and warms up at 11 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?

- 43 degrees in 2 hours 41 degrees in 3 hours
 39 degrees in 2 hours 40 degrees in 2 hours

Show your work

#2

Choose the best answer

Mia has just unplugged her fridge so it can defrost. The freezer is at 17 degrees and warms up at 3 degrees an hour. The fridge part is at 7 degrees and rises 5 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?

- 32 degrees in 5 hours 30 degrees in 5 hours
 36 degrees in 5 hours 34 degrees in 6 hours

Show your work

#3

Choose the best answer

A large order has been put in at a pizza place for a school event. Dylan and Luke are both quick at making pizzas. Luke can make 14 pizzas an hour and has already made 15. Dylan has made 17 and can make 13 pizzas an hour. When they both reach the same number of pizzas total they will be done. How many pizza will they have made between now and finishing, and how long will it take?

- 43 pizzas after 2 hours 42 pizzas after 3 hours
 45 pizzas after 2 hours 48 pizzas after 2 hours

Show your work

#4

Choose the best answer

Dale and Chuck are training to run a marathon. Evan, their trainer, showed up half way through their training session and saw that Dale had completed 23 laps and was setting a pace of 5 laps per hour, and Chuck was done 11 laps and was setting a pace of 9 laps per hour. If they both tied in the end, how long did it take them to finish?

- 41 laps took them 3 hours 39 laps took them 3 hours
 38 laps took them 3 hours 35 laps took them 4 hours

Show your work

#5

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

#6

Choose the best answer

Daniel is going to ship some gifts to family members, and he is considering two shipping companies. The first shipping company charges a fee of \$22 to ship a medium box, plus an additional \$4 per pound. A second shipping company charges \$12 for the same size of box, plus an additional \$9 per pound. At a certain weight, the two shipping methods will cost the same amount. What is that weight? How much will it cost?

- 2 pounds would cost \$35 2 pounds would cost \$30
 2 pounds would cost \$34 3 pounds would cost \$28

Show your work

#7

Choose the best answer

Dale and Chuck are training to run a marathon. Jacob, their trainer, showed up half way through their training session and saw that Dale had completed 17 laps and was setting a pace of 16 laps per hour, and Chuck was done 19 laps and was setting a pace of 15 laps per hour. If they both tied in the end, how long did it take them to finish?

- 49 laps took them 2 hours 44 laps took them 3 hours
 51 laps took them 2 hours 54 laps took them 2 hours

Show your work

#8

Choose the best answer

Emily uses rechargeable batteries. One battery has already been charged 14 percent and charges at a rate of 5 percent an hour. Emily starts charging another battery that still has 10 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?

- 20% after 2 hours 21% after 3 hours
 25% after 2 hours 24% after 2 hours

Show your work

#9

Choose the best answer

Dale and Chuck are training to run a marathon. Lily, their trainer, showed up half way through their training session and saw that Dale had completed 9 laps and was setting a pace of 6 laps per hour, and Chuck was done 13 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?

- 19 laps took them 2 hours 22 laps took them 2 hours
 21 laps took them 2 hours 24 laps took them 3 hours

Show your work

#10

Choose the best answer

Emily is going to ship some gifts to family members, and she is considering two shipping companies. The first shipping company charges a fee of \$22 to ship a medium box, plus an additional \$9 per pound. A second shipping company charges \$14 for the same size of box, plus an additional \$11 per pound. At a certain weight, the two shipping methods will cost the same amount. What is that weight? How much will it cost?

- 4 pounds would cost \$58 4 pounds would cost \$60
- 5 pounds would cost \$53 4 pounds would cost \$55

Show your work

#11

Choose the best answer

A fashion photographer needs to hire a stylist to prepare his models for a shoot. Nick charges \$13 for showing up plus \$12 per hour. Addison charges \$22 to show up plus \$9 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?

- \$48 for 4 hours \$45 for 3 hours
- \$54 for 3 hours \$49 for 3 hours

Show your work

#12

Choose the best answer

Dale and Chuck are training to run a marathon. Cameron, their trainer, showed up half way through their training session and saw that Dale had completed 17 laps and was setting a pace of 8 laps per hour, and Chuck was done 14 laps and was setting a pace of 11 laps per hour. If they both tied in the end, how long did it take them to finish?

- 27 laps took them 2 hours 26 laps took them 1 hours
- 28 laps took them 1 hours 25 laps took them 1 hours

Show your work

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