

#1

Choose the best answer

Darren has just unplugged his 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?

- 39 degrees in 2 hours 35 degrees in 2 hours
- 44 degrees in 2 hours 41 degrees in 3 hours

Show your work

#2

Choose the best answer

A fashion photographer needs to hire a stylist to prepare his models for a shoot. Alexa charges \$15 for showing up plus \$9 per hour. Ashley charges \$21 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?

- \$42 for 3 hours \$39 for 3 hours
- \$40 for 3 hours \$46 for 4 hours

Show your work

#3

Choose the best answer

Makayla and Matthew are in a hot dog eating competition. By the time Kevin gets there Makayla has eaten 11 hot dogs and Matthew has eaten 23. According to their stats Makayla can eat 10 hot dogs a minute, while Matthew can eat 8. How long will it be until they are tied, and how many hot dog will they have eaten in that time?

- 71 each after 6 minutes 75 each after 7 minutes
- 66 each after 6 minutes 76 each after 6 minutes

Show your work

#4

Choose the best answer

Last Wednesday, two friends met up after school to read the book they were both assigned in Literature class. Gavin can read 8 pages per minute, and he had already read 17 pages. Avery, who has a reading speed of 11 pages per minute, had read 14 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?

- 25 pages after 1 minutes 27 pages after 1 minutes
- 30 pages after 1 minutes 26 pages after 2 minutes

Show your work

#5

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

#6

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

#7

Choose the best answer

Sydney is going to ship some gifts to family members, and she is considering two shipping companies. The first shipping company charges a fee of \$18 to ship a medium box, plus an additional \$8 per pound. A second shipping company charges \$24 for the same size of box, plus an additional \$6 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 \$42 3 pounds would cost \$43
- 4 pounds would cost \$38 3 pounds would cost \$37

Show your work

#8

Choose the best answer

Farmer William has harvested 14 tonnes of wheat so far, and can harvest 12 tonnes per day. His neighbor Farmer Christopher can harvest 11 tonnes per day, and has 18 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?

- 66 tonnes after 4 days 59 tonnes after 5 days
- 62 tonnes after 4 days 58 tonnes after 4 days

Show your work

#9

Choose the best answer

A fashion photographer needs to hire a stylist to prepare his models for a shoot. Anna charges \$15 for showing up plus \$8 per hour. Jayden charges \$20 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?

- \$59 for 5 hours \$50 for 5 hours
- \$55 for 5 hours \$51 for 6 hours

Show your work

#10

Choose the best answer

Makayla and Matthew are in a hot dog eating competition. By the time Kevin gets there Makayla has eaten 11 hot dogs and Matthew has eaten 23. According to their stats Makayla can eat 10 hot dogs a minute, while Matthew can eat 8. How long will it be until they are tied, and how many hot dog will they have eaten in that time?

- 71 each after 6 minutes 75 each after 7 minutes
 66 each after 6 minutes 76 each after 6 minutes

Show your work

#11

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

#12

Choose the best answer

Farmer Olivia has harvested 20 tonnes of wheat so far, and can harvest 2 tonnes per day. Her neighbor Farmer Anthony can harvest 6 tonnes per day, and has 12 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?

- 20 tonnes after 2 days 24 tonnes after 2 days
 19 tonnes after 2 days 21 tonnes after 3 days

Show your work

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