#1

Choose the best answer

Dale and Chuck are training to run a marathon. Ryan, their trainer, showed up half way through their training session and saw that Dale had completed 13 laps and was setting a pace of 9 laps per hour, and Chuck was done 21 laps and was setting a pace of 7 laps per hour. If they both tied in the end, how long did it take them to finish?

- 49 laps took them 4 hours
- 46 laps took them 5 hours
- 48 laps took them 4 hours
- 47 laps took them 4 hours

Show your work

#2

Choose the best answer

Farmer Aiden has harvested 14 tonnes of wheat so far, and can harvest 7 tonnes per day. His neighbor Farmer Austin can harvest 6 tonnes per day, and has 16 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?

- 30 tonnes after 3 days
- 24 tonnes after 2 days
- 32 tonnes after 2 days
- 28 tonnes after 2 days

Show your work

#3

Choose the best answer

Logan uses rechargeable batteries. One battery has already been charged 15 percent and charges at a rate of 9 percent an hour. Logan starts charging another battery that still has 21 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 3 hours
- 45% after 4 hours
- 42% after 3 hours
- 47% after 3 hours

Show your work

#4

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

#5

Choose the best answer

Olivia has just unplugged her fridge so it can defrost. The freezer is at 22 degrees and warms up at 9 degrees an hour. The fridge part is at 14 degrees and rises 11 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?

- 61 degrees in 5 hours
- 53 degrees in 4 hours
- 59 degrees in 4 hours
- 58 degrees in 4 hours

Show your work

#6

Choose the best answer

Dale and Chuck are training to run a marathon. Angela, their trainer, showed up half way through their training session and saw that Dale had completed 17 laps and was setting a pace of 3 laps per hour, and Chuck was done 7 laps and was setting a pace of 5 laps per hour. If they both tied in the end, how long did it take them to finish?

- 32 laps took them 5 hours
- 28 laps took them 5 hours
- 27 laps took them 5 hours
- 33 laps took them 6 hours

Show your work

#7

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

#8

Choose the best answer

Savannah has just unplugged her fridge so it can defrost. The freezer is at 16 degrees and warms up at 6 degrees an hour. The fridge part is at 12 degrees and rises 10 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?

- 22 degrees in 1 hours
- 26 degrees in 1 hours
- 27 degrees in 2 hours
- 25 degrees in 1 hours

Show your work

#9

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

#10

Choose the best answer

Farmer Hailey has harvested 24 tonnes of wheat so far, and can harvest 12 tonnes per day. Her neighbor Farmer Zachary can harvest 16 tonnes per day, and has 20 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?

- ○ 33 tonnes after 2 days
- ○ 36 tonnes after 1 days
- ○ 37 tonnes after 1 days
- ○ 40 tonnes after 1 days

Show your work

#11

Choose the best answer

Jack has just unplugged his 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?

- ○ 76 degrees in 6 hours
- ○ 72 degrees in 7 hours
- ○ 69 degrees in 6 hours
- ○ 71 degrees in 6 hours

Show your work

#12

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

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