

Name : _____

Solving Proportions

Sheet 1

- 1) Isaac and his friends pitched 4 Trekker tents in 60 minutes on a camping site. How long will they take to pitch 5 tents?

- 2) Fiona, an avid food blogger posted a total 216 recipes in 36 weeks. If she posted them at a constant rate, how many recipes did she upload in 15 weeks' time?

- 3) Jacob strode up 24 steps in 12 seconds to reach his apartment on the second floor. How many steps did he climb in 9 seconds?

- 4) Derek uses a 52 inch flat steel bar that weighs 10.4 lb to make a rack in the garage. Find the weight of a 67-inch steel bar.

- 5) Mike completed an online course that contained 20 core topics in a total of 40 learning hours. How many topics did he complete in 12 hours time?

- 6) Alexa bought a pack of 12 cookies for \$3.50 from the supermarket. How many packs of cookies can she buy for \$17.50?

Name : _____

Answer key

Solving Proportions

Sheet 1

- 1) Isaac and his friends pitched 4 Trekker tents in 60 minutes on a camping site. How long will they take to pitch 5 tents?

75 minutes

- 2) Fiona, an avid food blogger posted a total 216 recipes in 36 weeks. If she posted them at a constant rate, how many recipes did she upload in 15 weeks' time?

90 recipes

- 3) Jacob strode up 24 steps in 12 seconds to reach his apartment on the second floor. How many steps did he climb in 9 seconds?

18 steps

- 4) Derek uses a 52 inch flat steel bar that weighs 10.4 lb to make a rack in the garage. Find the weight of a 67-inch steel bar.

13.4 lb

- 5) Mike completed an online course that contained 20 core topics in a total of 40 learning hours. How many topics did he complete in 12 hours time?

6 core topics

- 6) Alexa bought a pack of 12 cookies for \$3.50 from the supermarket. How many packs of cookies can she buy for \$17.50?

5 packs with 60 cookies

Name : _____

Solving Proportions

- 1) On Thursday, the basketball coach ordered 12 pizzas for 36 players who came in for practice. How many pizzas does the coach need to order, if 12 players turned up for practice the next day?

- 2) Henry works at a retail store and is eligible for 18 days leave for a year. How many days of leave is he entitled to for 9 months of work?

- 3) Arum takes 12 _____
rate. How much _____

_____ problems at a constant
problems?

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- 4) Leila sold 141 _____
many saplings _____

_____ day sale. How
constant rate?

- 5) There are two _____
available a ma _____
van-accessible _____

_____ parking spaces
the total number of

- 6) Rebecca trains for a marathon. She runs 6.8 miles in 34 minutes. Determine the distance covered in 10 minutes.

Solving Proportions

- 1) On Thursday, the basketball coach ordered 12 pizzas for 36 players who came in for practice. How many pizzas does the coach need to order, if 12 players turned up for practice the next day?

4 pizzas

- 2) Henry works at a retail store and is eligible for 18 days leave for a year. How many days of leave is he entitled to for 9 months of work?

- 3) Arum takes 12 _____
rate. How much _____

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blems at a constant
blems?

- 4) Leila sold 141 _____
many saplings _____

ay sale. How
constant rate?

- 5) There are two _____
available a ma _____
van-accessible _____

arking spaces
he total number of

8 van-accessible parking spaces

- 6) Rebecca trains for a marathon. She runs 6.8 miles in 34 minutes. Determine the distance covered in 10 minutes.

2 miles

Name : _____

Solving Proportions

- 1) A team of nine artists created wall murals in 18 classrooms at a constant rate. How many classrooms can a team of 15 artists paint?

- 2) Joe spent \$35.40 to fill 15 gallons of gas in his minivan. How much does 6 gallons of gas cost?

- 3) A pitcher of mango juice. How many cups of pineapple juice can be made with 12 cups of pineapple juice?

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and 2 cups of orange juice. How many cups of orange juice can be made with 12 cups of pineapple juice?

- 4) Laura buys a pitcher of mango juice. How many cups of pineapple juice can be made with 12 cups of pineapple juice?

of 1,536 calories.

- 5) Yvonne buys a pitcher of mango juice. How many cups of pineapple juice can be made with 12 cups of pineapple juice?

of 87 oz. Find the

- 6) Ed spends 21 hours practicing drums over a fortnight. At that rate, how much time will he spend on practicing drums over a 7 week period?

Solving Proportions

- 1) A team of nine artists created wall murals in 18 classrooms at a constant rate. How many classrooms can a team of 15 artists paint?

30 classrooms

- 2) Joe spent \$35.40 to fill 15 gallons of gas in his minivan. How much does 6 gallons of gas cost?

- 3) A pitcher of mango juice. How many cups of pineapple juice can be made with 12 cups of pineapple juice?

3

- 4) Laura buys a pizza that has 1,536 calories. What is her calorie intake if she eats 1/4 of the pizza?

- 5) Yvonne buys 6 cans of tomatoes. What is the weight of 5 cans if 1 can weighs 14.5 oz?

72.5 oz of diced tomatoes

- 6) Ed spends 21 hours practicing drums over a fortnight. At that rate, how much time will he spend on practicing drums over a 7 week period?

73.5 hours

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and 2 cups of orange juice. How many cups of orange juice can be made with 12 cups of pineapple juice?

What is her calorie intake if she eats 1/4 of the pizza?

Find the weight of 5 cans if 1 can weighs 14.5 oz.

Name : _____

Solving Proportions

Sheet 4

- 1) Rick runs four miles on a treadmill in a total of 52 minutes. If he ran at a constant rate, how many minutes did he clock to cover a distance of 3 miles?

- 2) The learning and development team conducted 45 training sessions for its employees over a period of 9 days at a constant rate. Find the number of sessions the team completed in 3 days.

- 3) One floor of a building has 120 desks arranged in 12 rows. How many desks are there in each row?

They are assembled in 12 rows?

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- 4) A website received 1200 visitors in the month of September. Find the number of visitors in the month of October.

ing the month of 20 days.

- 5) The elevator in a building takes 10 seconds to reach the 10th floor. At which rate, how long will it take to reach the 20th floor?

o reach the 10th

- 6) An IT company recruits 470 graduates from one location over a 10-day period. Find the number of graduates recruited in 7 days, if they were hired at a constant rate.

Solving Proportions

- 1) Rick runs four miles on a treadmill in a total of 52 minutes. If he ran at a constant rate, how many minutes did he clock to cover a distance of 3 miles?

39 minutes

- 2) The learning and development team conducted 45 training sessions for its employees over a period of 9 days at a constant rate. Find the number of sessions the team completed in 3 days.

- 3) One floor of a building has 120 desks arranged in 12 rows. How many desks are there in each row?

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They are assembled in how many rows?

- 4) A website received 1200 hits in the month of September. Find the number of hits it received in the month of October.

How many days in the month of October?

- 5) The elevator in a building takes 10 seconds to reach the 10th floor. At which floor does it stop?

How many floors does it reach?

4th floor

- 6) An IT company recruits 470 graduates from one location over a 10-day period. Find the number of graduates recruited in 7 days, if they were hired at a constant rate.

329 graduates

Name : _____

Solving Proportions

- 1) Find the number of pancakes Sandra can make in 20 minutes, if she takes half an hour to prepare 6 pancakes at a constant rate.

- 2) A soccer stadium in Portland has a total of 728 seats spread over 28 rows. How many seats does 12 rows in the stadium accommodate?

- 3) The price listed for plates is \$1.20 per plate. How much will Jane need to pay for 15 plates?

3. What amount will be needed for 15 plates?

- 4) How long does it take to type out an assignment if it takes 15 minutes to type 100 words?

- 5 minutes to type 100 words

- 5) Kylie buys 4 pencils for \$1.20. How many pencils can she buy for \$3.00?

- 12 pencils in all, find the price of each pencil.

- 6) Michelle buys 4 Disney theme park admission cards online and gifts them to her nieces. What will be the charge for 5 such admission cards, if she spent \$748 on her purchase?

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Name : _____

Answer key

Sheet 5

Solving Proportions

- 1) Find the number of pancakes Sandra can make in 20 minutes, if she takes half an hour to prepare 6 pancakes at a constant rate.

_____ **4 pancakes** _____

- 2) A soccer stadium in Portland has a total of 728 seats spread over 28 rows. How many seats does 12 rows in the stadium accommodate?

- _____ **143 pencils** _____
3) The price listed for plates is \$1.25 per plate. How much will Jane need to pay for 10 plates?

_____ **\$12.50** _____
3. What amount will she need to pay for 10 plates?

- _____ **\$12.50** _____
4) How long does it take to type out an assignment if it takes 15 minutes to type 100 words?

_____ **143 pencils** _____
5 minutes to type 100 words.

- _____ **\$935** _____
5) Kylie buys 4 pencils for \$232.50. If she buys 143 pencils in all, find the total cost.

_____ **\$935** _____
143 pencils in all, find the total cost.

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