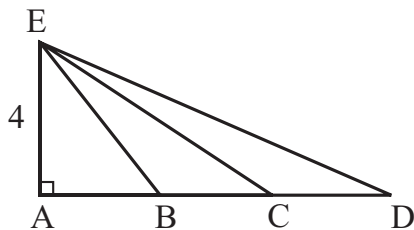


1. At a toy factory, each worker assembles one toy at a time and can assemble a total of 48 toys in 2 hours. At that rate, how many toys can 4 workers assemble in 3 hours?

1. _____ toys

2. In right triangle EAD with right angle at A, $AE = 4$ units, $AB = BC = CD$ and the area of triangle ABE = 6 sq units. What is the length of segment CE? Express your answer as a decimal to the nearest tenth.

2. _____ units



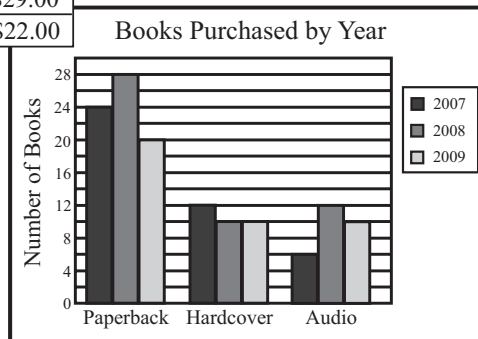
3. Four children are arguing over a broken toy. Ali says Barbara broke it. Barbara says Tyler broke it. Tyler and Jessica say they do not know who broke it. The child who broke the toy is aware that he/she did so and only the guilty child is not telling the truth. Who broke the toy?

3. _____

4. Mrs. Jacobi is a book lover who purchases books throughout the year. The chart shows the average prices she paid for the different types of books she purchased during a three-year period. The graph shows how many of each type of book Mrs. Jacobi purchased during the same three-year period. What is the percent increase in the amount of money Mrs. Jacobi spent on books in 2009 compared to 2007? Express your answer to the nearest whole percent.

4. _____ %

Year	Paperback	Hardcover	Audio
2007	\$10.00	\$24.00	\$18.00
2008	\$12.00	\$26.00	\$29.00
2009	\$18.00	\$20.00	\$22.00



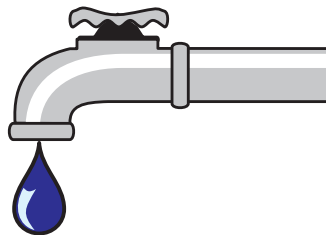


5. The entertainment portion of a 30-minute television show lasted four minutes more than four times the number of minutes devoted to advertising. How many minutes of entertainment did the show have? Express your answer as a decimal to the nearest tenth.

5. _____ minutes

6. A faucet at Mr. Leaky's house drips at the rate of one drop every 2 seconds. Mr. Leaky determined that it takes 5750 drops to fill a 1-liter bottle. If the water always drips at a constant rate, how many liters of water drip from this faucet during the year 2010? Express your answer to the nearest whole number.

6. _____ liters



7. Two distinct integers, m and n , are chosen from the set $\{1, 2, 3, 4, \dots, 2009\}$. What is the maximum possible value of $(2m + n) \div (m - 2n)$?

7. _____

8. Marco's speed riding up a hill is 40% of his speed riding down the hill. It takes him two hours longer to ride up the hill than it takes him to ride down the hill. How long, in hours, does it take him to ride down the hill? Express your answer as a common fraction.

8. _____ hours

