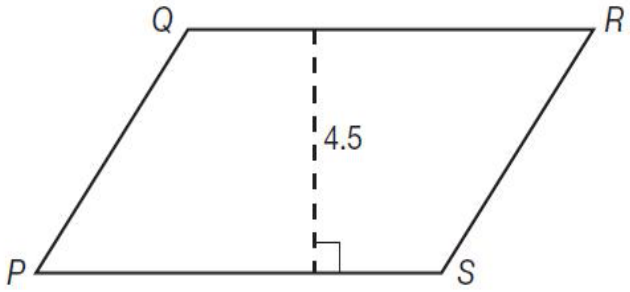
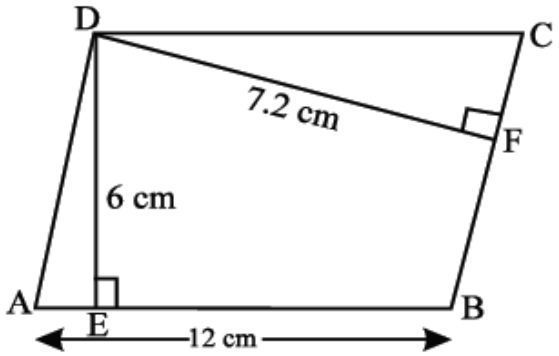
Hohete Tibeb Share Company
Education and Technology Team
Ethio-Parents' Schools: Addis Ababa (Gerji/Gullele) and Hawassa.
Work Sheet For Grade 8

1. What is the probability of the following events?
   a) An odd number appears on the single toss of a fair die.
   b) A black card is drawn when drawing a single card from an ordinary deck of 52 cards
   c) A black card or red card is drawn when drawing a single card from an ordinary deck of 52 cards
   d) Do not get a heart when drawing a single card from an ordinary deck of 52 cards
   e) An ace, a ten of diamonds, or a three of clubs appears in drawing a single card from an ordinary deck of 52 cards.
2. Two dice are thrown simultaneously. Find the probability of getting:
   a) an even number as the sum,
   b) a prime number as the sum,
   c) a multiple of '3' as the sum,
   d) a total of at least 10,
   e) the same number on both dice.
3. An experiment consists of tossing a coin and a die. Find the probability of getting:
   a) a tail on the coin and anything on the die?
   b) an odd number on the die and anything on the coin?
   c) heads on the coin and a 2 or 4 on the die?
   d) heads on the coin given that a 3 has come up on the die?
4. From a group of 10 republicans and 8 democrats, a committee of 4 is to be chosen.
   a) What is the probability of choosing 2 democrats and 2 republicans?
   b) What is the probability of at most 2 democrats?

5. Suppose that a box contains 3 red and 2 green balls. Two balls are drawn from the box without replacement. What is the probability that the first is red and the second is green?
6. Two cards are drawn from a deck of 52 cards. What is the probability that both are aces given that the cards are drawn a) without replacement and b) with replacement?
7. If a right angle triangle ABC has leg of length a=7cm and the hypotenuse c=25cm. find the required leg?
8. Find the height of an isosceles triangle with two congruent sides of length 47cm and the base of length 34cm.
9. The height of the parallelogram below is 4.5 cm and the area is 36 sq cm. Find the length of side QR in centimeters.



10. In the given figure, ABCD is a parallelogram, AB = 12 cm, altitude DF = 7.2 cm and DE = 6 cm, find the perimeter of parallelogram ABCD.



11. Calculate the area of the shape shown in the figure.

