

Word Problems

October 30, 2024

5 A tree casts a shadow 10 ft long. A boy standing next to the tree casts a shadow 2.5 ft long. The triangle shown for the tree and its shadow is similar to the triangle shown for the boy and his shadow. If the boy is 5 ft tall, how tall is the tree?

5 Steven wants to buy a \$565 bicycle. Steven has no money saved, but will be able to deposit \$30 into a savings account when he receives his paycheck each Friday. How-

ever, before Steven can buy the bike, he must give his sister \$65 that he owes her. For how many weeks will Steven need to deposit money into his savings account before he can pay back his sister and buy the bike?

(A) 25 weeks

(B) 19 weeks

(C) 22 weeks

(D) 21 weeks