

Daily Dilemma #8: Answer Key

1. Team 1: branch hits 4 for $4 \cdot 8 = 32$ points
knot hits 2 for $2 \cdot 10 = 20$ points

Team 2: branch hits 4 for $4 \cdot 8 = 32$ points
knot hits 3 for $3 \cdot 10 = 30$ points

Total points: $32 + 20 + 32 + 30 = 114$ points

2. factors of 48: 1,2,3,4,6,8,12,16,24,48

factors of 30: 1,2,3,5,6,10,15,30

factors of 42: 1,2,3,6,7,14,21,42

3. Perimeter is $8 + 22 + 8 + 22 + 60$ meters

They need $60 - 51 = 9$ meters of fencing

$\$3.45 \cdot 9 = \31.05

4. head 12cm
torso 16cm
legs 14cm

5. A flipnoodle is a quadrilateral with an interior circle along the base.

So, flipnoodles are figures B and E.

A is not a flipnoodle because the attached circle is on the exterior.

C is not a flipnoodle because the figure is not a quadrilateral.

D is not a flipnoodle because the circle is in the center of the figure rather than on the base.

F is not a flipnoodle because the large part of the figure is a circle, not a quadrilateral.