

Number Nest Weekly Challenge



Warm up

1. What is $4 \times (18 - 7) + 6$?
2. True or false: $\frac{35}{1000} + \frac{2}{100} = 55\%$
3. What is 65 miles to kilometers?
4. Convert 62000 cm^2 to m^2 :

5 miles = 8 km

Activity

1. Dallas is approximately three times taller than his dog, Dash, Dash is 57 cm tall. Approximately how tall is Dallas?
a) 170 mm b) 161 cm c) 1.5 m d) 19 cm e) 1.7 m

2. Four of these five shapes are reflections or rotations (or both) of each other. Which shape is the odd one out?



3. A grand piano went on sale last year for £21600, but this year its price has been reduced to £17280. What percentage discount is this?



4. Alvin the chipmunk has gathered 100 acorns. He eats some of them and finds that he can divide what is left into piles of 2, or piles of 3, or piles of 5 acorns, each time with one acorn left over. When he divides the acorns into piles of 7 each, he has no leftover acorns. How many acorns did Alvin the chipmunk eat?

Puzzle

Harriet the Hare and Toby the Tortoise want to cross the finish line at the same time at the end of their 12 km woodland race. Toby sets off at 8:15am and trots at a constant speed of 4 km per hour. Harriet runs at a constant speed of 8 km per hour. At what time should Harriet set off?

