

Number Nest Weekly Challenge



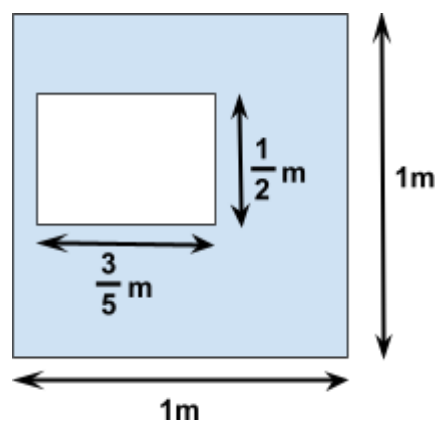
Warm up

1. True or false: $\frac{3}{7} = \frac{9}{21}$
2. True or false: $2 \times 5\frac{1}{2} = 2 \times 5 + 2 \times \frac{1}{2}$
3. What is $265 \div 7$ to 2 decimal places?
4. What is $398 - 787$?

Activity

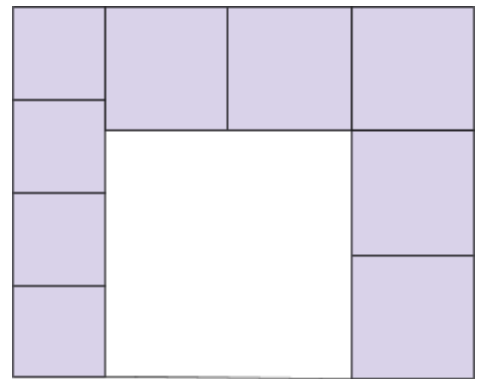
1. Clyde cycles to school every day, he cycles at 4 m/s and takes 15 minutes to get to school. How far away is Clyde's home from school? Another day, he took 30 minutes to get to school. How fast did he cycle then?

2. What is the area of the shaded region?



3. If I count down from 2025 by first taking away 15 and then 26 and then 15 and then 26 and so on, what is the last positive integer I will reach?

4. These purple boxes fit in a large rectangle, what is the ratio of the shaded area to the unshaded area?



Puzzle

Place numbers 1 to 8 in the squares below so that each side adds up to the number in the middle.

