

## HSPT Practice Questions



Now on day five... don't forget to work quickly. Give yourself only one minute to answer all four.

### Sample questions – DAY FIVE

#### \*\*\*\*\* FRACTIONS AND DECIMALS \*\*\*\*\*

$$5/6 - 2/3 =$$

- A.  $3/6$
- B.  $1/3$
- C.  $1/2$
- D.  $3/3$
- E.  $1/6$

Answer E.

Before subtracting, the two fractions have to have common denominators.  $5/6 - 4/6 = 1/6$

Which of the following fractions is the equivalent of 0.25 ?

- A.  $1/25$
- B.  $25/1$
- C.  $1/4$
- D.  $1/250$
- E.  $2/5$

Answer C.

.25 can be read twenty-five one-hundredths, which is  $25/100$ . This reduces to  $1/4$ . However, this is much more about number sense development; a student in the 8th grade should 'know' that .25 is  $1/4$ , that  $.25 + .25 + .25 + .25 = 1$ . By 'know,' we mean have a developed sense for the relative size of numbers in relationship to other numbers.

$$1/4 \times 1/4 =$$

- A.  $1/16$
- B.  $1/8$
- C.  $2/8$
- D.  $2/16$
- E.  $4/4$

Answer A.

In multiplying fractions, it is just straight multiplication across the numerator and denominator.

$$1/5 \div 1/5 =$$

- A. 5
- B. 1
- C.  $1/5$
- D.  $2/10$
- E. 0

Answer B.

In dividing fractions, the simple rule is "just invert and multiply." So,  $1/5 \times 5/1 = 5/5 = 1$