

Standard Form: Small Numbers

ANSWERS

1

Write 0.006 in standard form.

$$0.006 = 0.06 \div 10$$

$$0.006 = 0.6 \div 10 \div 10$$

$$0.006 = 6 \div 10 \div 10 \div 10$$

$$0.006 = 6 \times 10^{-3}$$

2

Write 0.0007 in standard form.

$$0.0007 = 0.007 \div 10$$

$$0.0007 = 0.07 \div 10 \div 10$$

$$0.0007 = 0.7 \div 10 \div 10 \div 10$$

$$0.0007 = 7 \div 10 \div 10 \div 10 \div 10$$

$$0.0007 = 7 \times 10^{-4}$$

3

Write 0.03 in standard form.

$$0.03 = 0.3 \div 10$$

$$0.03 = 3 \div 10 \div 10$$

$$0.03 = 3 \times 10^{-2}$$

4

Write 0.009 in standard form.

$$0.009 = 0.09 \div 10$$

$$0.009 = 0.9 \div 10 \div 10$$

$$0.009 = 9 \div 10 \div 10 \div 10$$

$$0.009 = 9 \times 10^{-3}$$

5

Write 0.0003 in standard form.

$$0.0003 = 0.003 \div 10$$

$$0.0003 = 0.03 \div 10 \div 10$$

$$0.0003 = 0.3 \div 10 \div 10 \div 10$$

$$0.0003 = 3 \div 10 \div 10 \div 10 \div 10$$

$$0.0003 = 3 \times 10^{-4}$$

6

Write 0.05 in standard form.

$$0.05 = 0.5 \div 10$$

$$0.05 = 5 \div 10 \div 10$$

$$0.05 = 5 \times 10^{-2}$$

7

Write 8×10^{-3} as an ordinary number.

$$8 \times 10^{-3} = 8 \div 10 \div 10 \div 10$$

$$= 0.8 \div 10 \div 10$$

$$= 0.08 \div 10$$

$$= 0.008$$

8

An ant weighs 0.004 g.
Write 0.004 in standard form.

$$0.004 = 0.04 \div 10$$

$$0.004 = 0.4 \div 10 \div 10$$

$$0.004 = 4 \div 10 \div 10 \div 10$$

$$0.004 = 4 \times 10^{-3}$$

Standard Form: Small Numbers *further practice*

ANSWERS

9



Write 0.007 in standard form.

$$0.007 = 0.07 \div 10$$

$$0.007 = 0.7 \div 10 \div 10$$

$$0.007 = 7 \div 10 \div 10 \div 10$$

$$0.007 = 7 \times 10^{-3}$$

10



Write 0.4 in standard form.

$$0.4 = 4 \div 10$$

$$0.4 = 4 \times 10^{-1}$$

11



Write 2×10^{-4} as an ordinary number.

$$2 \times 10^{-4} = 2 \div 10 \div 10 \div 10 \div 10$$

$$= 0.2 \div 10 \div 10 \div 10$$

$$= 0.02 \div 10 \div 10$$

$$= 0.002 \div 10$$

$$= 0.0002$$

12



A grain of sand is 0.0005 m wide.
Write 0.0005 in standard form.

$$0.0005 = 0.005 \div 10$$

$$0.0005 = 0.05 \div 10 \div 10$$

$$0.0005 = 0.5 \div 10 \div 10 \div 10$$

$$0.0005 = 5 \div 10 \div 10 \div 10 \div 10$$

$$0.0005 = 5 \times 10^{-4}$$

13



A poppy seed weighs 3×10^{-4} g.
Write this as an ordinary number.

$$3 \div 10 \div 10 \div 10 \div 10$$

$$= 0.0003$$

Answer 0.0003 g

14



Which is bigger, 2×10^{-3} or 9×10^{-4} ?

$$2 \times 10^{-3} = 0.002$$

$$9 \times 10^{-4} = 0.0009$$

Answer 2×10^{-3}

15



Write in order, smallest first:
 4×10^{-2} , 7×10^{-3} , 1×10^{-1} .

$$4 \times 10^{-2} = 0.04$$

$$7 \times 10^{-3} = 0.007$$

$$1 \times 10^{-1} = 0.1$$

$$7 \times 10^{-3} \quad 4 \times 10^{-2} \quad 1 \times 10^{-1}$$

16



Sam says $0.0006 = 6 \times 10^4$.
Is Sam right? Explain.

$$0.0006 = 6 \div 10 \div 10 \div 10 \div 10$$

Sam is wrong. 0.0006 is less than 1,
so the power is negative

and $0.0006 = 6 \times 10^{-4}$