



## Revision worksheet

1. Find LCM and HCF of the numbers below:

a) 16, 18 and 30

b) 12, 63 and 90

c) 10, 18 and 25



d) 990 and 300

e) 560 and 240

f) 480 and 700

2. Solve:

a)  $\sqrt{\frac{4}{100}} =$

b)  $\sqrt{\frac{16}{81}} =$

c)  $\sqrt{\frac{9}{25}} =$

d)  $\sqrt[3]{\frac{8}{125}} =$

e)  $\sqrt[3]{\frac{64}{1000}} =$

f)  $\sqrt{0.25} =$

g)  $\sqrt{0.64} =$

h)  $\sqrt{1.21} =$

i)  $\sqrt{0.04} =$

j)  $\sqrt[3]{0.008} =$

k)  $\sqrt[3]{0.064} =$

3. A square has a side length of 0.3 m, find it's area.

4. A square has an area of  $0.09 \text{ m}^2$ , what is the side length?

5. The side length of a cube is 0.4 cm, what is the volume?

6. A cube has a volume of  $0.125 \text{ m}^3$ , what is the side length?

7. Workout:

$23 \times 0.01 =$	$4.5 \times 0.01 =$	$1.64 \times 0.1 =$
$0.78 \times 0.1 =$	$1.5 \times 0.4 =$	$8.9 \times 0.12 =$
$1.25 \times 0.54 =$	$56 \div 0.1 =$	$4.6 \div 0.01 =$
$8.26 \div 0.01 =$	$84 \div 0.04 =$	$2.4 \div 0.12 =$
$8.1 \div 0.09 =$	$0.25 \div 0.005 =$	$0.0642 \div 0.02 =$

8. Complete:

$\frac{3}{7}$	
	$0.\dot{6}$
$1\frac{9}{20}$	
	$0.\dot{6}\dot{3}$
	$0.0\dot{8}1$

9. Workout:

a. Increase \$8.2 by 40%.

b. Decrease 50.5 kg by 25%.

c. A 35% markup on a computer worth \$220.

d. A 6% sale on a shirt worth \$42.

10. Workout:

$10 \times \frac{2}{5} =$	$18 \div \frac{6}{7} =$
$\frac{9}{14} \times \frac{2}{3} =$	$-12 \times 2\frac{3}{4} =$
$7 \div -1\frac{2}{5} =$	$\frac{18}{35} \div \frac{3}{5} =$

11. Workout:

- a. Mickey has read three-fifth of his 75 pages book. How many more pages he needs to read to complete his book?
  
  
  
  
  
  
  
  
  
  
- b. Tom bought  $2\frac{1}{5}$ L milk on Monday and  $1\frac{2}{10}$ L on Tuesday. How much milk did he buy in two days?

- c. Jerry bought  $3\frac{5}{7}$ Kg of cheese and used  $1\frac{1}{3}$ Kg. How much cheese is left?
- d. Ben bought  $1\frac{4}{7}$ Kg banana on Monday and  $2\frac{2}{6}$ Kg of apple on Tuesday. What is the total quantity of fruits Ben bought?
- e. Tia bought 0.35m cloth at the cost of \$4.5 per meter. How much amount did he pay?
- f. In a high school contest, Ross jumped  $3\frac{8}{9}$ m and Joy jumped  $4\frac{1}{3}$ m. Who jumped more height and by how much more?



g. Bunny bought  $2\frac{2}{5}$ kg of strawberry,  $2\frac{2}{3}$ kg of blackberry and  $1\frac{7}{15}$ kg of blueberry. What is the total weight of berries Bunny bought?

h. Kitty's mother bought  $5\frac{3}{4}$ kg of cookies and her father bought  $1\frac{9}{20}$ kg of cookies. What is the total weight of cookies that Kitty has?

12. Find the value of the missing variable:

$$2\frac{4}{18} + 3\frac{a}{9} = 5\frac{2}{3}$$

$$4\frac{b}{4} - 2\frac{7}{12} = 1\frac{2}{3}$$

13. Workout:

$\left(\frac{3}{4} - \frac{9}{24}\right) \times \left(\frac{2}{3} + \frac{5}{6} + \frac{7}{18}\right) =$	$\sqrt{100} + (7 - 10)^3 \div 9 - 12 =$
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14. Round:

- a. 0.0123 to 2 s.f \_\_\_\_\_
- b. 25460 to 1 s.f \_\_\_\_\_
- c. 98761 to 3 s.f \_\_\_\_\_
- d. 1.70826 to 4 s.f \_\_\_\_\_
- e. 303457 to 4s.f \_\_\_\_\_
- f. 0.000749 to 2 s.f \_\_\_\_\_

15. Simplify leaving your answer in index notation:

a.  $5^2 \times 5^4 \times 5 =$

b.  $a^2 \times a^4 =$

c.  $7^{10} \div 7^4 =$

d.  $b^8 \div b^6 =$

e.  $8a^7 \div 4a^3 =$

f.  $5c^2 \times 3c^5 =$

g.  $\frac{6^{15}}{6^{10}} =$

h.  $\left(\frac{1}{2}\right)^0 =$

16. Use a ratio to compare these quantities:

a.  $1.5 m^3; 20000 cm^3$

b.  $4 cm^2; 240 mm^2$

c.  $0.36 \text{ m}^3$ ;  $81000 \text{ cm}^3$

d.  $4.8 \text{ km}^2$ ;  $960000 \text{ m}^2$

e.  $2 \text{ weeks}$ ;  $20 \text{ days}$

f.  $3 \text{ hours}$ ;  $500 \text{ minutes}$

g. 6: four dozen

h. 3.5 t: 5500 kg

i. 4 litres: 6400 ml

17. Share among A, B and C:

a. 60 chocolates in the ratio 3:2: 7

b. \$420 in the ratio 1:2:4

c. 2.7 kg in the ratio 1:3:6

d. \$34.20 in the ratio 4:1:7

