



Counting in the Mines

Name _____

Date _____

Count the blocks Write how many in the box.







Add and take away

$3 + 4 = \boxed{}$

$6 + 2 = \boxed{}$

$5 + 5 = \boxed{}$

$9 - 3 = \boxed{}$

$8 - 5 = \boxed{}$

$10 - 4 = \boxed{}$

Mining stories

1 You mine 4 coal and 3 iron. How many ores do you have?

 ores

2 You have 8 torches and place 5 on the wall. How many are left?

 torches

3 You build a wall of 9 blocks. A creeper blows up 2. How many blocks are left?

 blocks

Circle the bigger number

6 or 4

12 or 15

19 or 9

Color one gem for every answer you get right.





Crafting Table

Name _____

Date _____

■ Times tables

$3 \times 4 = \boxed{}$

$6 \times 7 = \boxed{}$

$8 \times 5 = \boxed{}$

$9 \times 3 = \boxed{}$

$7 \times 7 = \boxed{}$

$4 \times 8 = \boxed{}$

■ Share it out

$24 \div 6 = \boxed{}$

$36 \div 4 = \boxed{}$

$45 \div 5 = \boxed{}$

$56 \div 8 = \boxed{}$

■ Crafting problems

1 1 coal and 1 stick craft 4 torches. How many torches can you make from 6 coal and 6 sticks? torches

2 A full stack holds 64 blocks. How many blocks are in 3 full stacks? blocks

3 A villager gives 1 emerald for every 20 wheat. You bring 80 wheat. How many emeralds do you get? emeralds

4 You share 30 arrows equally among 5 players. How many arrows does each player get? arrows

■ Place value

5 You have 3,582 cobblestone. What is the digit 5 worth?

6 Write the number: 4 thousands, 0 hundreds, 6 tens and 2 ones.

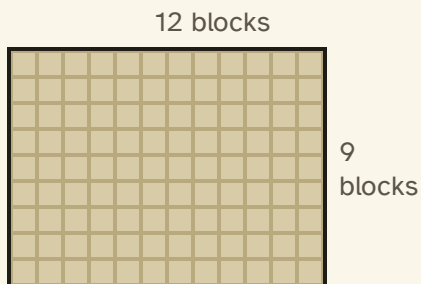
7 Your chest holds 1,748 items. Round it to the nearest hundred.

Color one gem for every answer you get right.





Floor plan



1 What is the area of this floor?
(How many blocks cover it?)

 blocks

2 What is its perimeter? (The
distance all the way around.)

 blocks

Fractions of your loot

3 You mined 24 ores. $\frac{3}{8}$ of them are iron. How many are iron?

 ores

4 A stack is 64 blocks. How many blocks are in $\frac{1}{2}$ of a stack plus $\frac{1}{4}$ of a stack?

 blocks

5 Which is more of a stack: $\frac{2}{3}$ or $\frac{5}{8}$? Write the bigger fraction.

6 Night lasts 7 minutes of a 20-minute day. Write that as a fraction, then as a percent.

Multi-step builds

7 Each log makes 4 planks. You need 150 planks. What is the fewest logs you must chop?

 logs

8 You harvest 5 rows of 14 wheat. 3 wheat bakes 1 bread. How many whole loaves can you bake?

 loaves

9 A pool is 10 long, 6 wide and 3 deep. How many water blocks fill it?

 blocks

10 You build the walls of a house 8 long and 6 wide, 4 blocks tall, with no roof. Count each corner block once. How many blocks do the walls use?

 blocks



Answers & Tips

Level 1 · Counting in the Mines

Count the blocks	7, 5, 9
$3+4$, $6+2$, $5+5$	7, 8, 10
$9-3$, $8-5$, $10-4$	6, 3, 6
1. Coal and iron	7 ores
2. Torches left	3
3. Wall after creeper	7 blocks
Bigger numbers	6, 15, 19

Tips for grown-ups

Let kids use real blocks, LEGO or drawings to model Level 1 and 2 problems. For Level 3, ask them to explain each step out loud before writing the answer.

Question 10 on Level 3 is a stretch problem: the four sides add to 28, but the 4 corners get counted twice, so each layer is 24 blocks.

Level 2 · Crafting Table

3×4 , 6×7 , 8×5	12, 42, 40
9×3 , 7×7 , 4×8	27, 49, 32
$24 \div 6$, $36 \div 4$	4, 9
$45 \div 5$, $56 \div 8$	9, 7
1. Torches	24
2. Three stacks	192
3. Emeralds	4
4. Arrows each	6
5. Digit 5 is worth	500
6. Number	4,062
7. Rounded	1,700

Level 3 · Builder's Blueprint

1. Area	108 blocks
2. Perimeter	42
3. Iron ores	9
4. $32 + 16$	48 blocks
5. Bigger fraction	$\frac{2}{3}$
6. Night	$\frac{7}{20} = 35\%$
7. $150 \div 4 = 37.5$, round up	38 logs
8. $70 \text{ wheat} \div 3$	23 loaves, 1 left over
9. $10 \times 6 \times 3$	180 blocks
10. $(8+8+6+6-4) \times 4$	96 blocks