

**A.W. James Elementary
School**

Math

**Independent Learning
Packets**

Grade 3

Student Name _____

Name _____

Date _____

Word Problems That Use All Operations - Independent Worksheet

Complete the following problems:

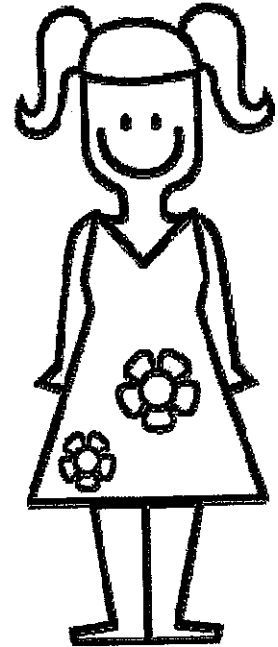
1) Susan has 45 hats in 10 cupboards. Her friends borrowed some of the hats. Nicky borrowed 3 hats and Shelly borrowed 2 hats. If Susan divided the remaining hats into the cupboards, how many hats would be in each cupboard?

2) Kevin has 280 erasers stored in boxes. There are 40 boxes. The erasers are equally distributed in the boxes. He distributed one box among two students. The first student got 3 erasers; the second student got 2 erasers. How many erasers were left in that box?

3) Kasey's job at the store is to equally stock the shelves. He needs to put 81 bottles of soda on 9 shelves. He sold some bottles from the first shelf. He sold 2 bottles to a man and 3 to a lady. How many bottles are remaining on that shelf?

4) Klaus was replacing the roof on his house. He used 420 nails to attach all the pieces of wood. Each piece of wood needed 7 nails to hold it in place. He used 40 pieces of wood. How many pieces were left?

5) An electrician needs to buy 144 light bulbs. The light bulbs come in packages of 8. He bought 4 packages from a store and 5 packages from a shop. How many more packages of light bulbs does the electrician need to buy?



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6) There are 5 students in the painting school. Each student painted 7 paintings. Some paintings were sold in an exhibition. 15 were sold to a museum, 18 were sold to a rich man and the remaining paintings were kept at the school. How many paintings were kept at the school?

7) Olive bought 36 potato plants. She planted them in her garden in 4 even rows. Wild animals ate a row. 5 plants were eaten by sheep and 2 by a goat in the same row. How many plants were remaining in the row that the sheep and goat got to?

8) Ricky and his friends bought 2 boxes of gold coins. There were 12 coins in each box. Rocky bought 10 coins, Roxy bought 5, and Rosy bought 2 coins. Russ bought all the remaining coins. How many coins did Russ buy?

9) Jacob wants his aquarium area to have 18 fish. Each tank has 3 fish. His father gave him 2 fish tanks and his mother gave him 3 fish tanks as a gift. How many more fish tanks does he need to fill the aquarium area?

10) George and his friends went to buy 6 dozen apples. One dozen is 12 apples. Gracie buys 15 apples. Jade buys 17 apples. Goofy buys 13 apples. Jackson buys 5 apples. George buys all the remaining apples. How many apples did George buy?



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Word Problems That Use All Operations - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem.

- _____ 1. Anthony has 36 bats evenly spread between 4 bags. He gave bats to players from one bag. The first player got 3 bats and the second player got 4 bats. How many bats are remaining in one bag? a. 3
- _____ 2. Simon has 45 books evenly spread in 5 cartons. He gave books to readers from one carton. The first reader got 3 books and the second reader got 4 books. How many books are remaining in one carton? b. 2
- _____ 3. Andrew wants to mail 2 boxes of candies. Each box should contain 20 candies. He bought 13 candies from small shop, 3 from downtown, and 4 from a mall. How many more candies does he still have to buy? c. 4
- _____ 4. Smith and his classmates need to collect 3 boxes of rulers. Each box has 4 rulers. Sam collects 4 rulers. Thomas collects 2 rulers. John finds 3 rulers. Josh finds the remaining rulers. How many rulers does Josh find? d. 20
- _____ 5. Josh and his brother have to collect 2 boxes of pens. A box has 20 pens. Jami collects 13 pens. Joe collects 9 pens. John finds 14 pens. Josh finds all the remaining pens. How many pens does Josh find? e. 2



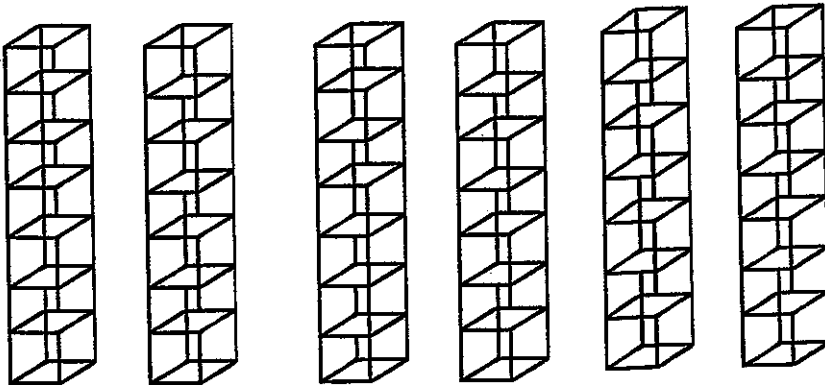
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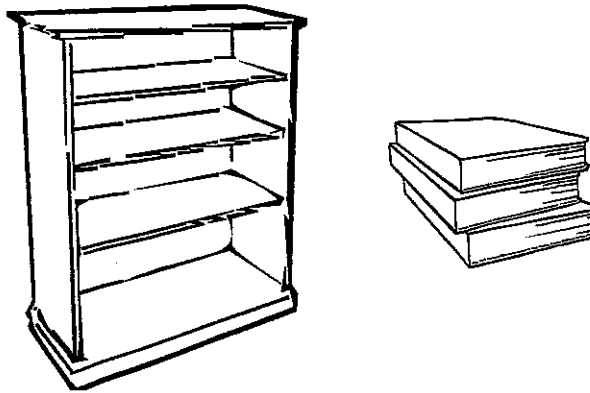
Division and Finding Unknown Factors - Guided Lesson:

Complete the following problems:

1) Kelly made 6 equal pillars of blocks. How many blocks did she put in each pillar, if Kelly used 42 blocks in all?



2.) If the bookshelf at the library holds 10 books. And if librarian wants to arrange 40 books to the library, how many bookshelf should the library have?



3.) A baker can fit 3 muffins in each gift box. How many boxes should he use to create a gift order of 18 muffins?



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Division and Finding Unknown Factors - Independent Practice

Complete all the problems.

1.) $20 \div \underline{\quad} = 2$

2.) $35 \div \underline{\quad} = 7$

3.) $81 \div \underline{\quad} = 9$

4.) $15 \div \underline{\quad} = 5$

5.) $33 \div \underline{\quad} = 3$

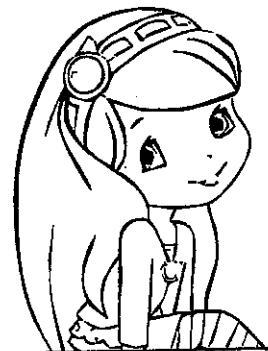
6.) $54 \div \underline{\quad} = 6$

7.) $36 \div \underline{\quad} = 6$

8.) $28 \div \underline{\quad} = 7$

9.) $12 \div \underline{\quad} = 6$

10.) $42 \div \underline{\quad} = 6$



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Division and Finding Unknown Factors - Matching Worksheet

Match the related equations.

1.) _____ \div 7 = 5

a. $6 \times 10 = 60$

2.) $60 \div$ _____ = 10

b. $48 \div 4 = 12$

3.) $14 \div$ _____ = 2

c. $84 \div 12 = 7$

4.) _____ \times 12 = 84

d. $5 \times 7 = 35$

5.) $48 \div$ _____ = 4

e. $4 \times 19 = 76$

6.) $76 \div 4 =$ _____

f. $70 \div 7 = 10$

7.) _____ \times 7 = 70

g. $7 \times 2 = 14$



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Arithmetic Patterns - Independent Practice Worksheet

1) Rule: Add by 3

In	Out
63	66
25	
81	
45	
26	
62	

2) Rule: Multiply by 2

In	Out
13	26
11	
10	
5	
12	
40	

3) Rule: Divide by 2

In	Out
42	21
22	
20	
12	
16	
18	

4) Rule: Subtract by 7

In	Out
37	30
14	
18	
32	
68	
50	



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5) Rule: Add by 8

In	Out
50	58
66	
27	
32	
30	
45	

6) Rule: Multiply by 3

In	Out
21	63
15	
13	
10	
11	
8	

7) Rule: Divide by 9

In	Out
81	9
18	
63	
36	
27	
45	

8) Rule: Subtract by 8

In	Out
20	12
32	
17	
45	
64	
72	



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9) Rule: Multiply by 7

In	Out
14	98
16	
11	
12	
5	
20	

10) Rule: Add by 6

In	Out
32	38
42	
15	
56	
85	
95	



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Arithmetic Patterns - Matching Worksheet

Match the following problems with their solutions. Write the letter of the answer that matches the problem.

_____ 1. Rule: Add by 5

In	Out
37	42
52	
19	
46	
25	
43	

a. 45, 57, 60, 66, 48

_____ 2. Rule: Subtract by 4

In	Out
53	49
32	
19	
30	
60	
42	

b. 3, 2, 4, 16, 10

_____ 3. Rule: Multiply by 3

In	Out
13	39
15	
19	
20	
22	
16	

c. 28, ¹⁵~~14~~, 26, 56, 38

_____ 4. Rule: Divide by 4

In	Out
28	7
12	
8	
16	
64	
40	

d. 57, 24, 51, 30, 48



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Perimeters of Polygons - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem. The units of measure have been removed.

- _____ 1. Jacob has a large sandbox. The sandbox is 12 meters long and 8 meters wide. He wants to surround the sandbox with new pieces of wood. How many meters of wood will he need? a. 15
- _____ 2. The perimeter of Sophia's garden is 42 meters. The garden is 6 meters wide. What is the length of the garden? b. 30
- _____ 3. Ava's sun shade is 8 meters long and 4 meters wide. What is the perimeter (in m) of the sun shade? c. 40
- _____ 4. Mason's bedroom is 14 meters long and 10 meters wide. He wants to cover the ends of the room with molding. How many meters of molding will he need? Assume that he will also purchase molding for the door. d. 24
- _____ 5. Abigail is displaying her paintings. Abigail's display area is 5 meters long and 3 meters wide. What is the perimeter of Abigail's display area? e. 16
- _____ 6. Chloe walks around a short field for exercise. The field is 18 meters long and 12 meters wide. How far does Chloe walk, if walks directly around the field's perimeter? f. 5
- _____ 7. Madison Electronics brought a huge solar panel that is 9 meters long and 6 meters wide. They want to cover the ends of solar panel with tape? How many meters of tape will they need? g. 48
- _____ 8. The perimeter of Aiden's book bag is 26 inches. The bag is 8 inches long. How many inches wide is the bag? h. 60



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Multiplication of 2s

Set 1

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

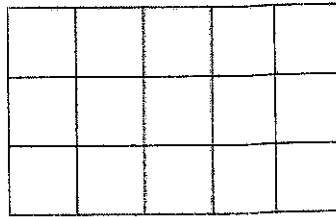
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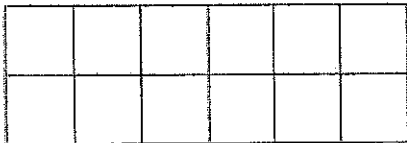
AREA SHEET 1

To find the area of a rectangle, simply count the number of squares inside the rectangle. The area of the shape below is $5 \times 3 = 15$ square cm.



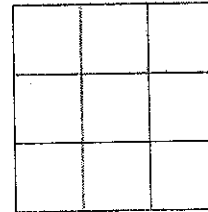
Work out the area of the following rectangles:

1)



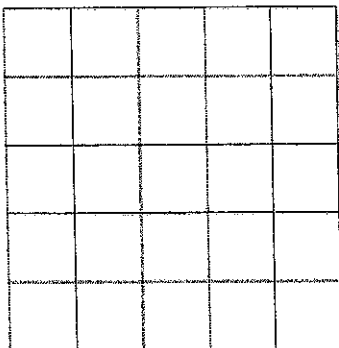
Area = _____ square cm

2)



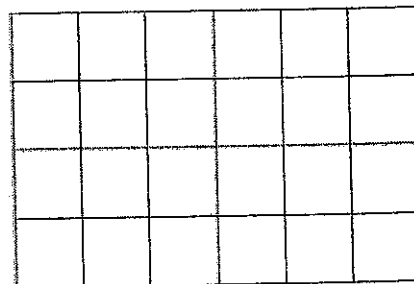
Area = _____ square cm

3)



Area = _____ square cm

4)



Area = _____ square cm



Name _____

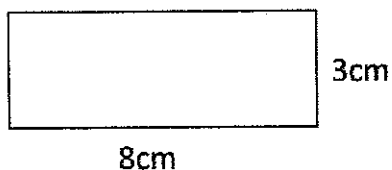
Date _____



AREA SHEET 3

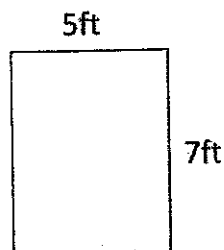
Work out the area of the following rectangles. They are not to scale.

1)



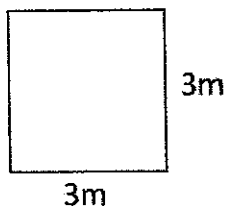
Area = _____ square cm

2)



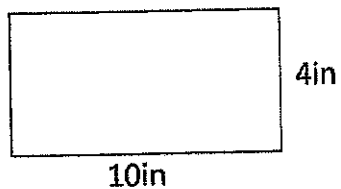
Area = _____ square ft

3)



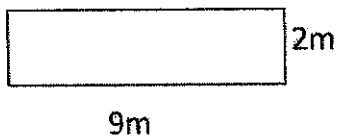
Area = _____ square m

4)



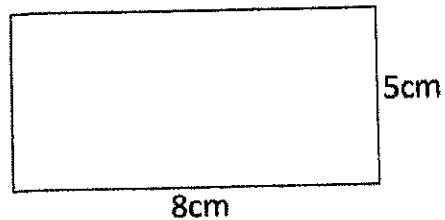
Area = _____ square in

5)



Area = _____ square m

6)



Area = _____ square cm





Subtracting 3-digit numbers, with regrouping

Grade 3 Subtraction Worksheet

Find the difference.

$$\begin{array}{r} 1. \quad 569 \\ - 369 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 873 \\ - 771 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 601 \\ - 543 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 595 \\ - 483 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 362 \\ - 204 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 844 \\ - 225 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 529 \\ - 355 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 263 \\ - 148 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 91 \\ - 7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 722 \\ - 44 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 683 \\ - 108 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 23 \\ - 8 \\ \hline \\ \hline \end{array}$$

Mixed addition & subtraction word problems

Grade 3 Math Word Problems Worksheet

Read and answer each question.

Janine owns a catering service company. She was hired to cater for the mayor's 50th birthday.

1. For the appetizers, she needs to make 750 mini meat pies. She divided her crew into 3 teams. If the first team made 235, and the second made 275, how many pies should the third team make?
2. The next food item she has to prepare is soup. She needs 280 cups of mushroom soup. If the first team made 90 cups in 60 minutes, and the third team made 70 cups in 90 minutes, how many cups should the second team prepare in order to meet the required amount of soup?
3. For the first main dish, they were asked to cook steak. If the third and second team cooked 240 plates of steak, and the first team cooked 75 plates less than what the second and third team made, how many steaks did they cook altogether?
4. For the second main course, they made fish fillets for the 320 people at the party. The first team made 189 pieces, the second team made 131 pieces and the third team made 180 pieces, how many pieces were made altogether?
5. They served a total of 179 adults and 141 children; if 156 of the people they served are male, how many are female?



Subtracting 3-digit numbers, with regrouping

Grade 3 Subtraction Worksheet

Find the difference.

$$\begin{array}{r} 1. \quad 90 \\ - 82 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 419 \\ - 12 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 625 \\ - 174 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 664 \\ - 63 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 559 \\ - 416 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 915 \\ - 40 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 669 \\ - 583 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 461 \\ - 330 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 615 \\ - 374 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 910 \\ - 74 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 882 \\ - 57 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 756 \\ - 510 \\ \hline \\ \hline \end{array}$$



Multiplication Tables - 2 to 12 practice

Grade 3 Multiplication Worksheet

Find the missing number.

1. $\underline{\quad} \times 2 = 14$

2. $11 \times \underline{\quad} = 22$

3. $8 \times \underline{\quad} = 48$

4. $4 \times 2 = \underline{\quad}$

5. $7 \times \underline{\quad} = 63$

6. $11 \times \underline{\quad} = 88$

7. $\underline{\quad} \times 10 = 20$

8. $4 \times \underline{\quad} = 36$

9. $11 \times \underline{\quad} = 77$

10. $12 \times 4 = \underline{\quad}$

11. $11 \times \underline{\quad} = 121$

12. $12 \times 6 = \underline{\quad}$

13. $\underline{\quad} \times 11 = 132$

14. $8 \times \underline{\quad} = 40$

15. $\underline{\quad} \times 7 = 56$

16. $10 \times \underline{\quad} = 50$

17. $8 \times \underline{\quad} = 16$

18. $3 \times \underline{\quad} = 15$

19. $11 \times 5 = \underline{\quad}$

20. $11 \times 4 = \underline{\quad}$

21. $\underline{\quad} \times 5 = 60$

22. $8 \times 8 = \underline{\quad}$

23. $11 \times \underline{\quad} = 66$

24. $\underline{\quad} \times 9 = 27$

25. $3 \times 4 = \underline{\quad}$

26. $\underline{\quad} \times 6 = 60$

27. $\underline{\quad} \times 9 = 99$



Round 3-digit numbers to the nearest 10

Grade 3 Rounding Worksheet

Example: 89 rounded to the nearest 10 is 90

Round to the nearest ten.

1. $\underline{8}2 =$ _____ 2. $\underline{8}4 =$ _____ 3. $\underline{9}2 =$ _____

4. $\underline{5}1 =$ _____ 5. $\underline{1}3 =$ _____ 6. $\underline{7}0 =$ _____

7. $\underline{6}6 =$ _____ 8. $\underline{9}7 =$ _____ 9. $\underline{8}7 =$ _____

10. $\underline{2}9 =$ _____ 11. $\underline{7}1 =$ _____ 12. $\underline{7}8 =$ _____

13. $\underline{2}8 =$ _____ 14. $\underline{3}6 =$ _____ 15. $\underline{5}7 =$ _____

16. $\underline{2}4 =$ _____ 17. $\underline{4}7 =$ _____ 18. $\underline{2}0 =$ _____

19. $\underline{5}3 =$ _____ 20. $\underline{9}5 =$ _____ 21. $\underline{4}1 =$ _____



Multiplication Tables - 2 to 12 practice

Grade 3 Multiplication Worksheet

Find the missing number.

1. $\underline{\quad} \times 2 = 14$

2. $11 \times \underline{\quad} = 22$

3. $8 \times \underline{\quad} = 48$

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9. $11 \times \underline{\quad} = 77$

10. $12 \times 4 = \underline{\quad}$

11. $11 \times \underline{\quad} = 121$

12. $12 \times 6 = \underline{\quad}$

13. $\underline{\quad} \times 11 = 132$

14. $8 \times \underline{\quad} = 40$

15. $\underline{\quad} \times 7 = 56$

16. $10 \times \underline{\quad} = 50$

17. $8 \times \underline{\quad} = 16$

18. $3 \times \underline{\quad} = 15$

19. $11 \times 5 = \underline{\quad}$

20. $11 \times 4 = \underline{\quad}$

21. $\underline{\quad} \times 5 = 60$

22. $8 \times 8 = \underline{\quad}$

23. $11 \times \underline{\quad} = 66$

24. $\underline{\quad} \times 9 = 27$

25. $3 \times 4 = \underline{\quad}$

26. $\underline{\quad} \times 6 = 60$

27. $\underline{\quad} \times 9 = 99$

Math Worksheet

1 a. $2 \times 3 = \underline{\quad}$

1 b. $2 \times 4 = \underline{\quad}$

2 a. $2 \times 12 = \underline{\quad}$

2 b. $2 \times 10 = \underline{\quad}$

3 a. $2 \times 9 = \underline{\quad}$

3 b. $3 \times 5 = \underline{\quad}$

4 a. $3 \times 12 = \underline{\quad}$

4 b. $2 \times 6 = \underline{\quad}$

5 a. $3 \times 1 = \underline{\quad}$

5 b. $3 \times 8 = \underline{\quad}$

6 a. $2 \times 11 = \underline{\quad}$

6 b. $3 \times 9 = \underline{\quad}$

7 a. $2 \times 5 = \underline{\quad}$

7 b. $3 \times 4 = \underline{\quad}$

8 a. $3 \times 10 = \underline{\quad}$

8 b. $3 \times 6 = \underline{\quad}$

9 a. $2 \times 2 = \underline{\quad}$

9 b. $3 \times 11 = \underline{\quad}$

10 a. $3 \times 3 = \underline{\quad}$

10 b. $2 \times 8 = \underline{\quad}$

Math Worksheet

1 a. $7 \times 6 = \underline{\hspace{2cm}}$

1 b. $7 \times 2 = \underline{\hspace{2cm}}$

2 a. $8 \times 2 = \underline{\hspace{2cm}}$

2 b. $7 \times 3 = \underline{\hspace{2cm}}$

3 a. $8 \times 6 = \underline{\hspace{2cm}}$

3 b. $8 \times 9 = \underline{\hspace{2cm}}$

4 a. $8 \times 3 = \underline{\hspace{2cm}}$

4 b. $7 \times 11 = \underline{\hspace{2cm}}$

5 a. $7 \times 9 = \underline{\hspace{2cm}}$

5 b. $8 \times 7 = \underline{\hspace{2cm}}$

6 a. $7 \times 12 = \underline{\hspace{2cm}}$

6 b. $8 \times 5 = \underline{\hspace{2cm}}$

7 a. $8 \times 1 = \underline{\hspace{2cm}}$

7 b. $8 \times 8 = \underline{\hspace{2cm}}$

8 a. $7 \times 8 = \underline{\hspace{2cm}}$

8 b. $7 \times 4 = \underline{\hspace{2cm}}$

9 a. $7 \times 5 = \underline{\hspace{2cm}}$

9 b. $8 \times 4 = \underline{\hspace{2cm}}$

10 a. $8 \times 12 = \underline{\hspace{2cm}}$

10 b. $8 \times 10 = \underline{\hspace{2cm}}$