

$1 + 1$

$1 + 2$

$1 + 3$

$1 + 4$

$1 + 5$

$1 + 6$

$1 + 7$

$1 + 8$

$1 + 9$

$2 + 1$

$2 + 2$

$2 + 3$

$2 + 4$

$2 + 5$

$2 + 6$

$2 + 7$

$2 + 8$

$2 + 9$

$3 + 1$

$3 + 2$

$3 + 3$

$3 + 4$

$3 + 5$

$3 + 6$

$3 + 7$

$3 + 8$

$3 + 9$

$4 + 1$

$4 + 2$

$4 + 3$

$4 + 4$

$4 + 5$

$4 + 6$

$4 + 7$

$4 + 8$

$4 + 9$

$5 + 1$

$5 + 2$

$5 + 3$

$5 + 4$

$5 + 5$

$5 + 6$

$5 + 7$

$5 + 8$

$5 + 9$

$6 + 1$

$6 + 2$

$6 + 3$

$6 + 4$

$6 + 5$

$6 + 6$

$6 + 7$

$6 + 8$

$6 + 9$

$7 + 1$

$7 + 2$

$7 + 3$

$7 + 4$

$7 + 5$

$7 + 6$

$7 + 7$

$7 + 8$

$7 + 9$

$8 + 1$

$8 + 2$

$8 + 3$

$8 + 4$

$8 + 5$

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$8 + 8$

$8 + 9$

$9 + 1$

$9 + 2$

$9 + 3$

$9 + 4$

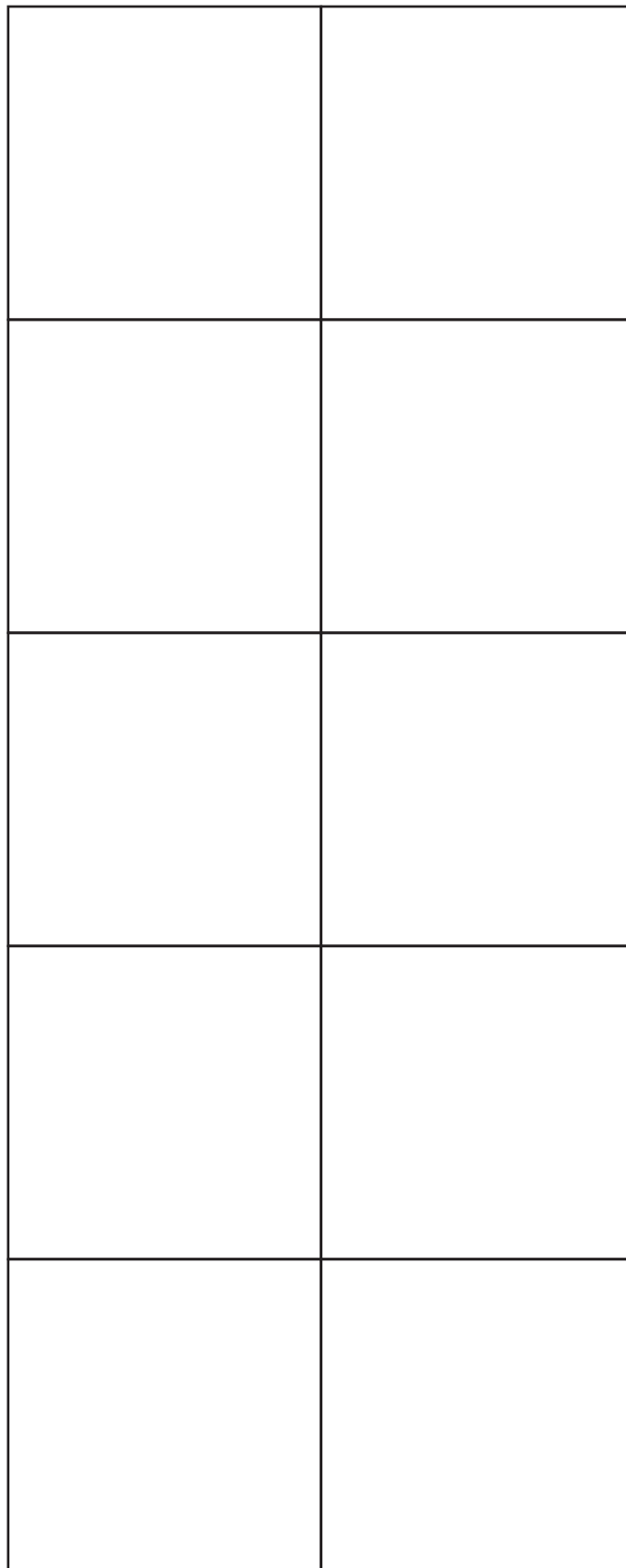
$9 + 5$

$9 + 6$

$$9 + 7$$

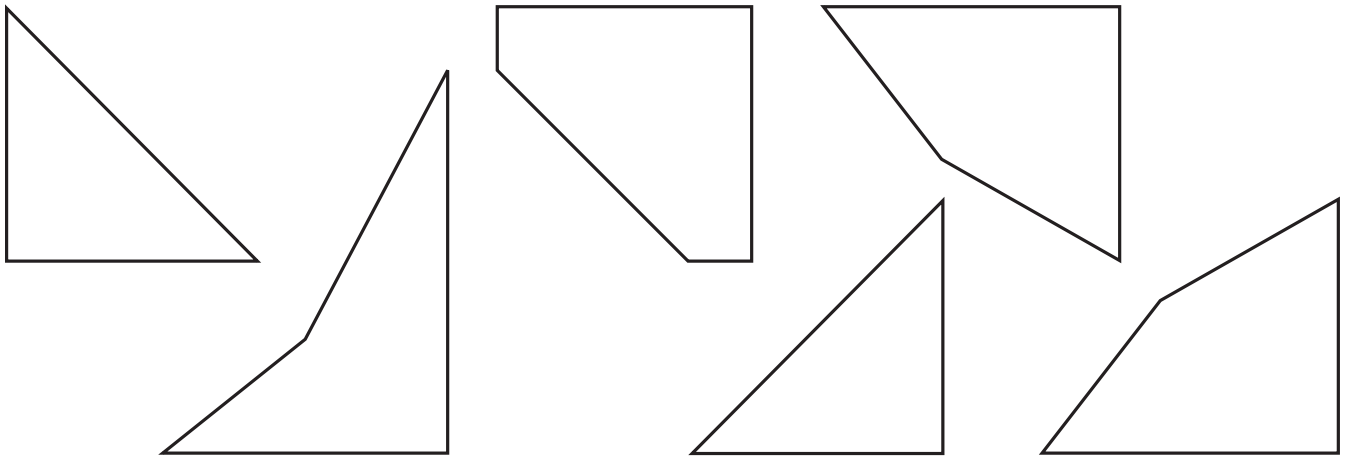
$$9 + 8$$

$$9 + 9$$

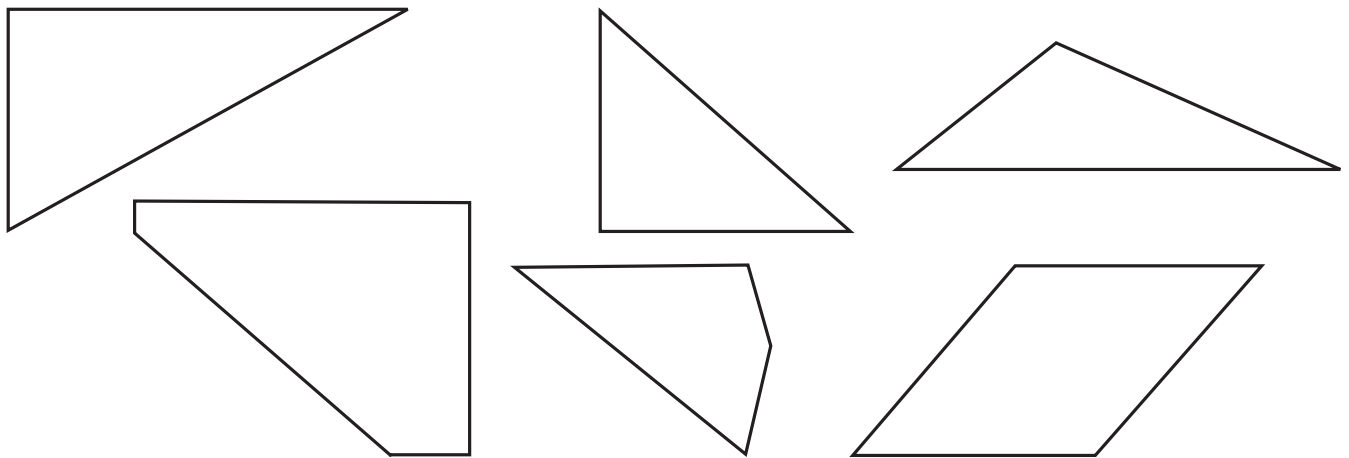


Shapes from workbook exercise 8-3.

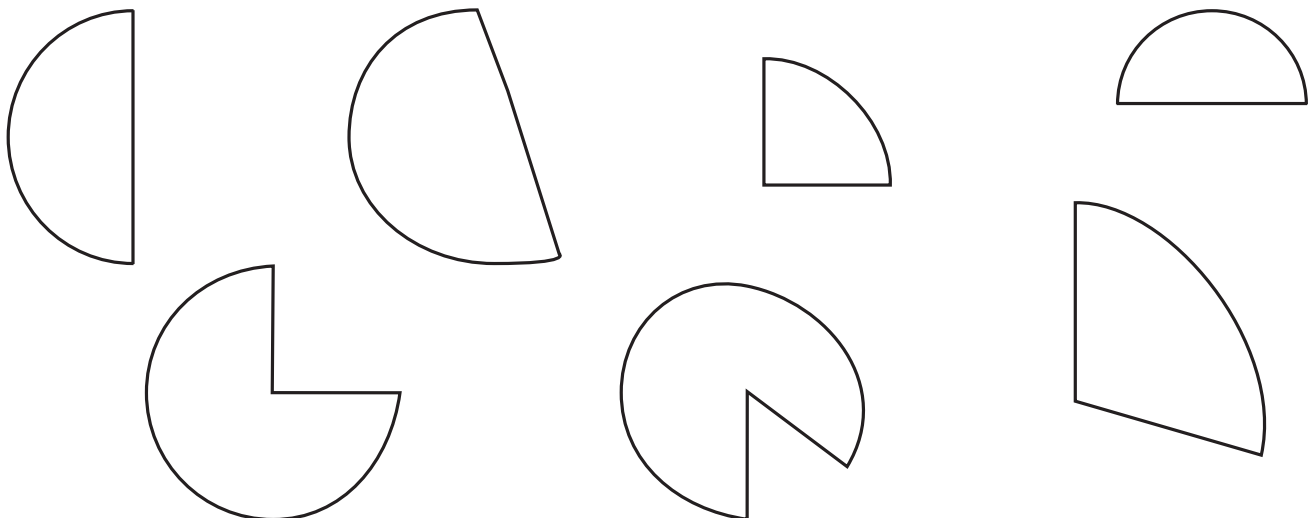
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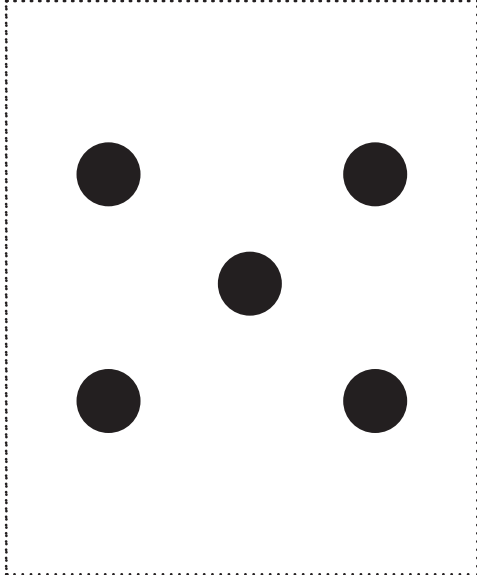
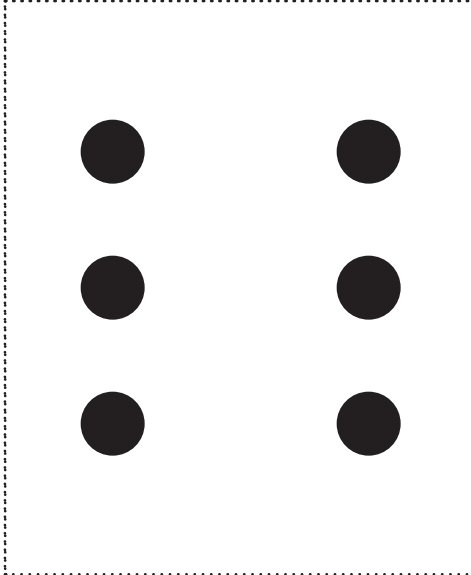
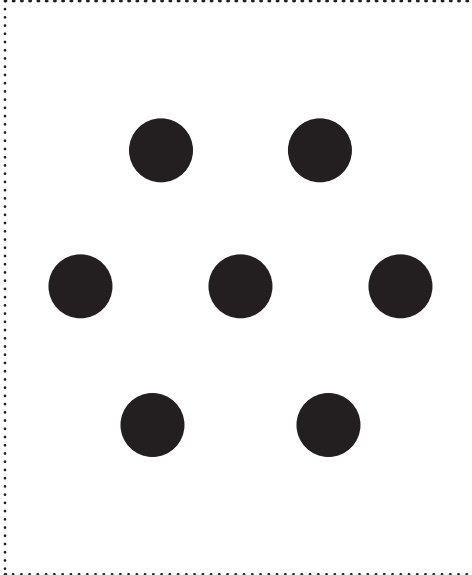
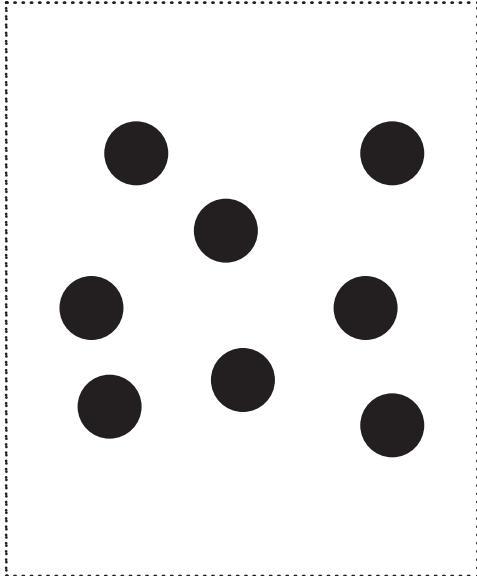
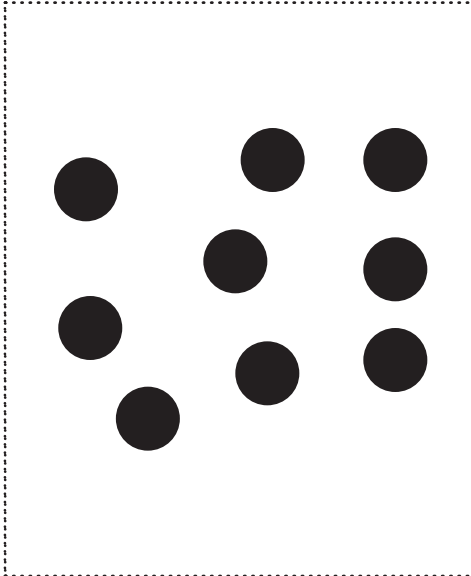
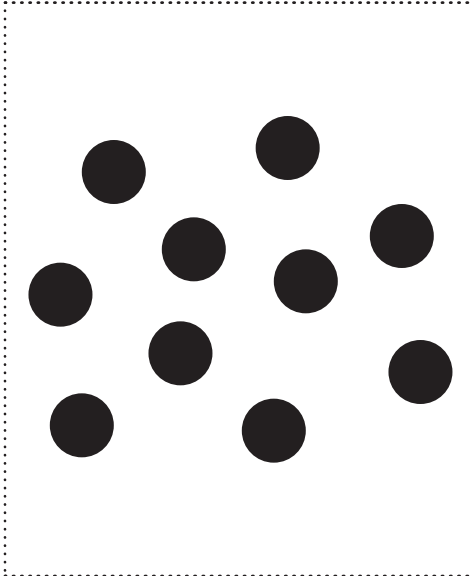
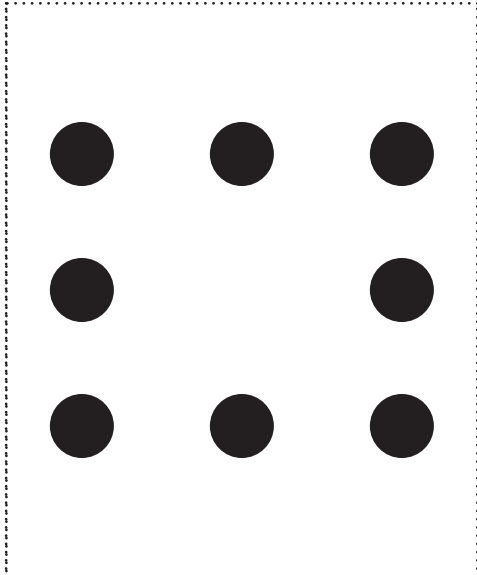
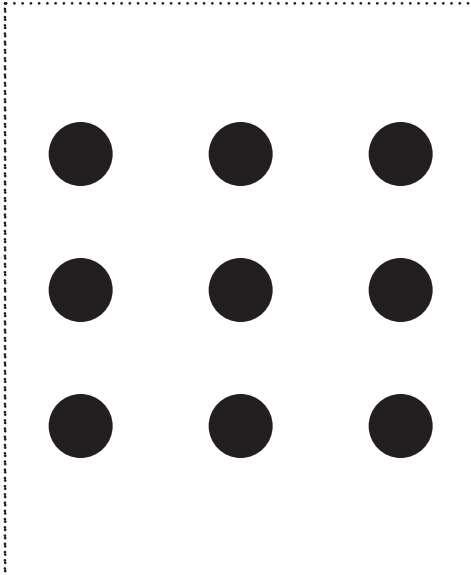
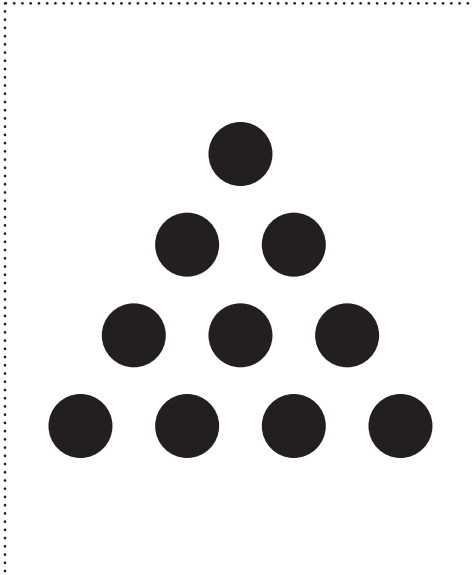


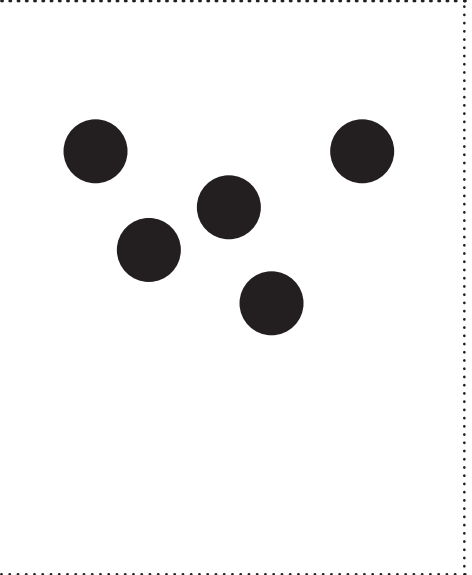
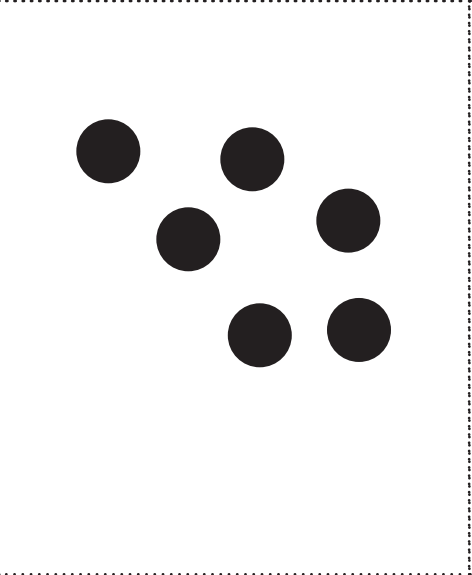
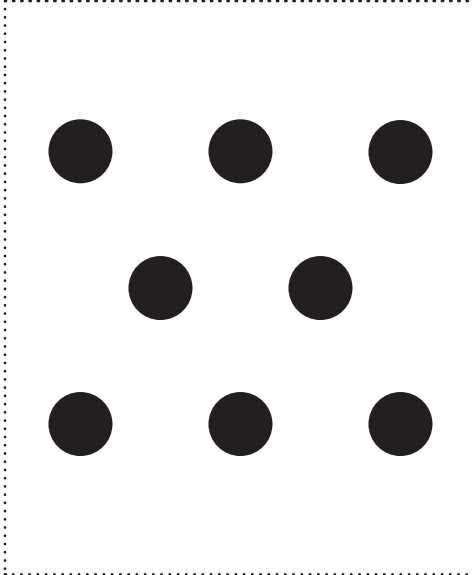
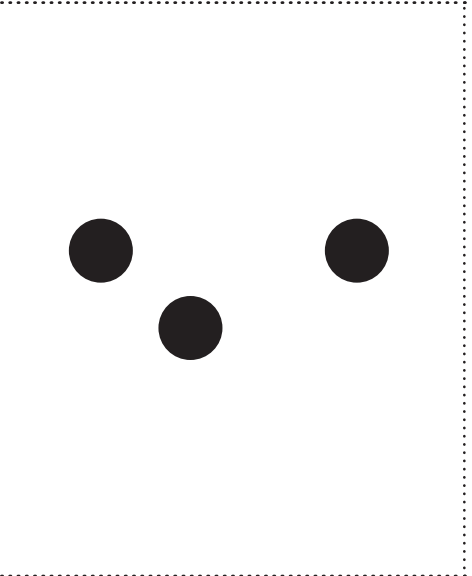
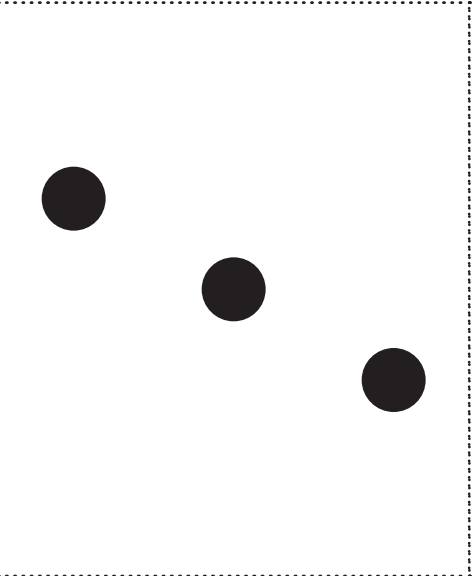
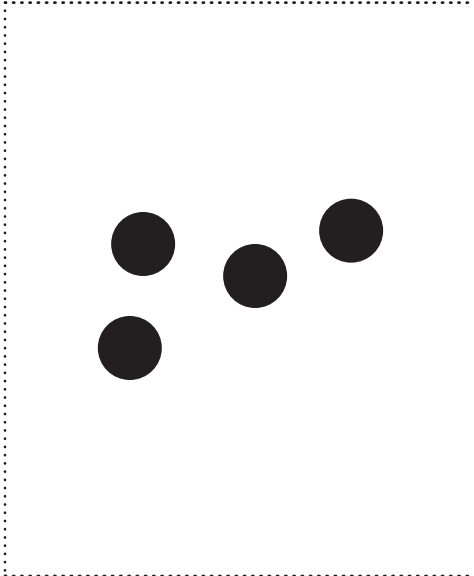
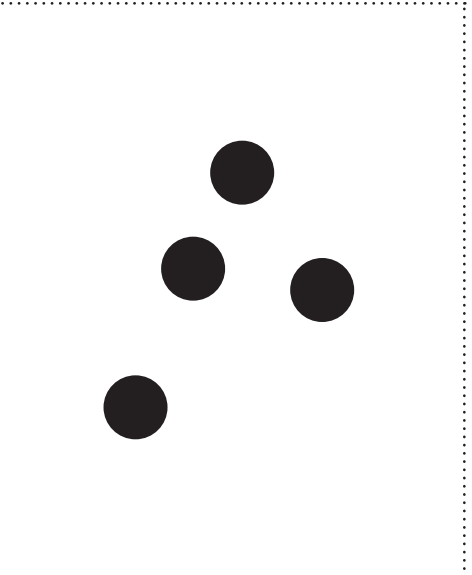
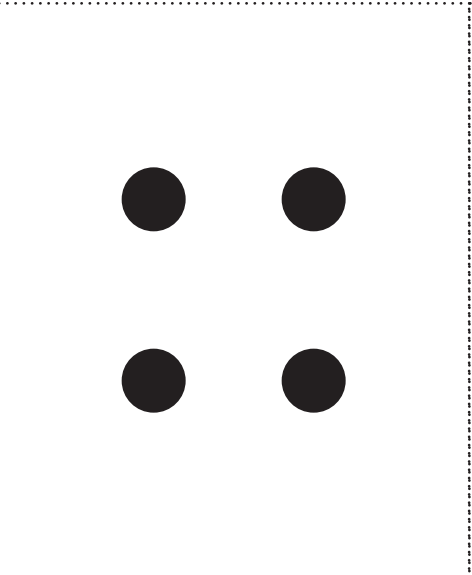
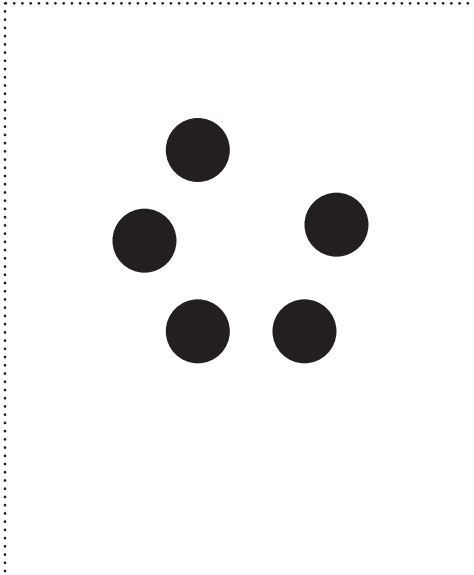
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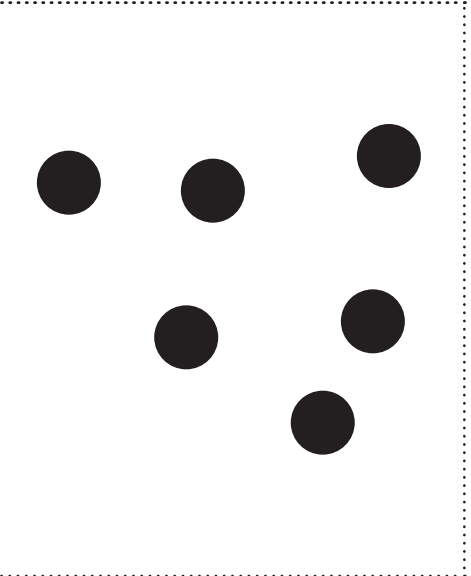
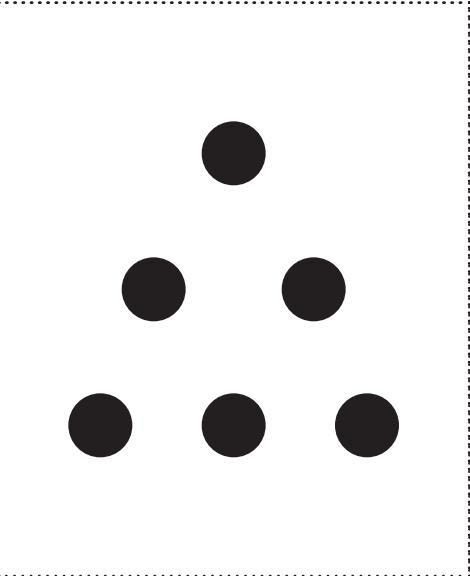
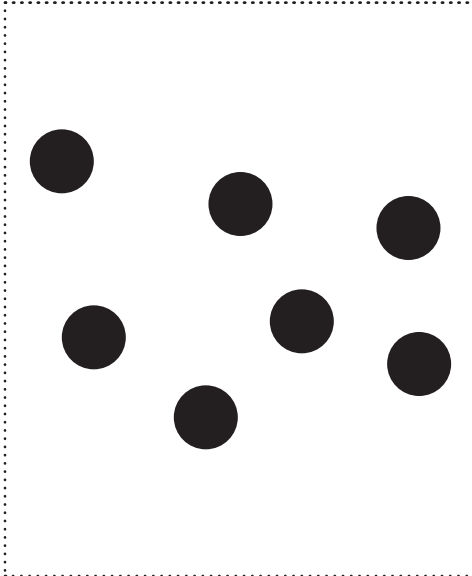
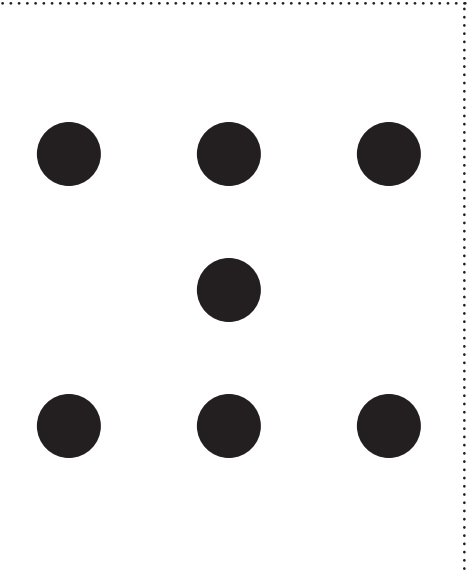
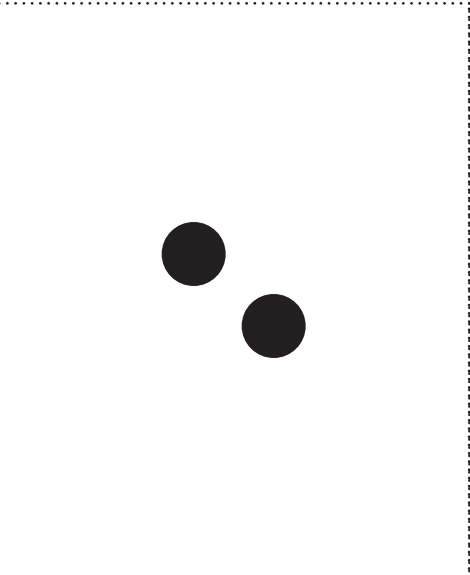
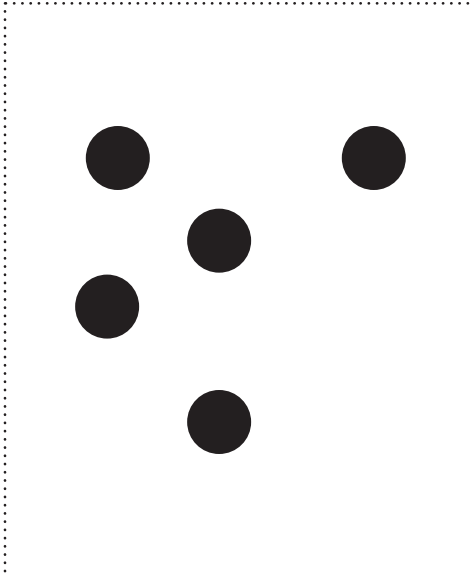


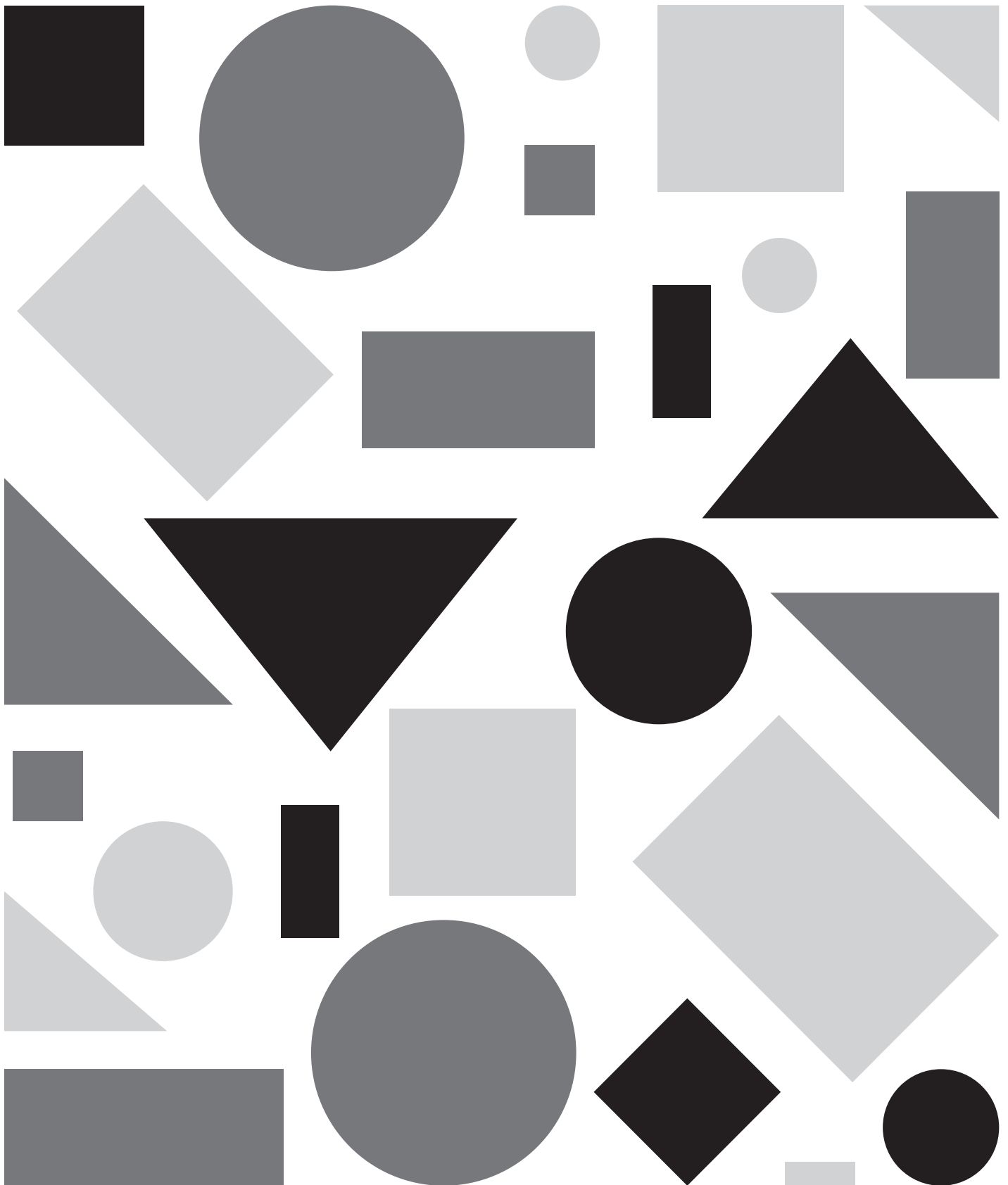
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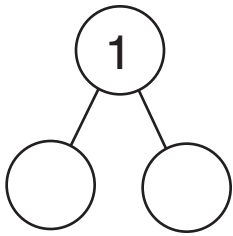




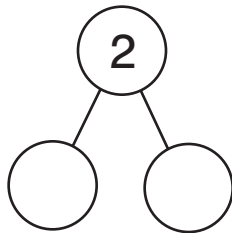
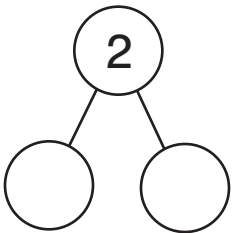




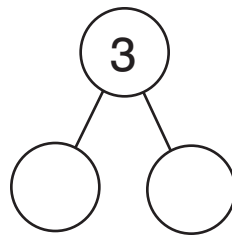
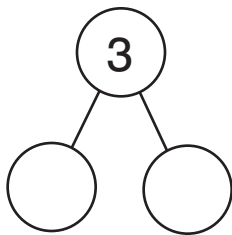
Number Bonds for 1



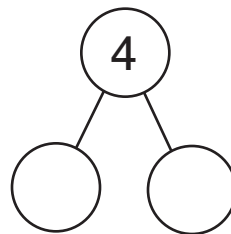
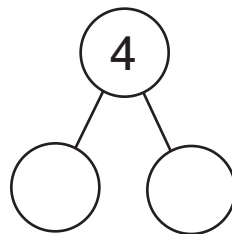
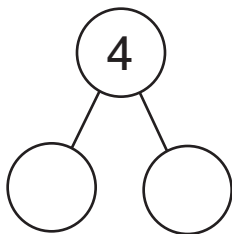
Number Bonds for 2



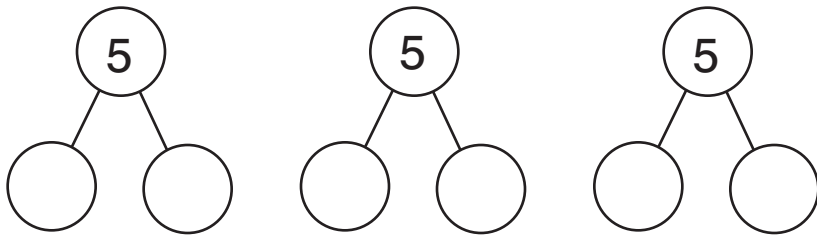
Number Bonds for 3



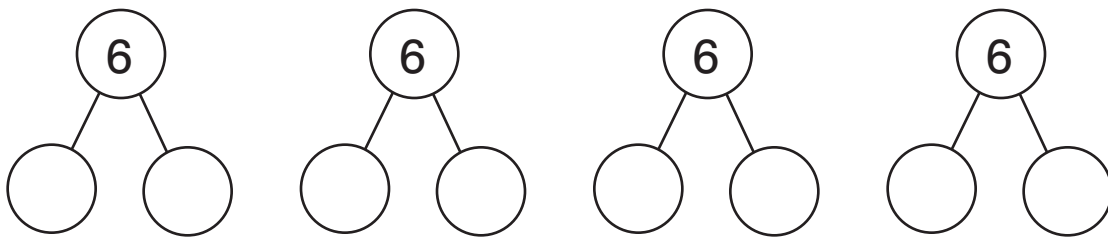
Number Bonds for 4



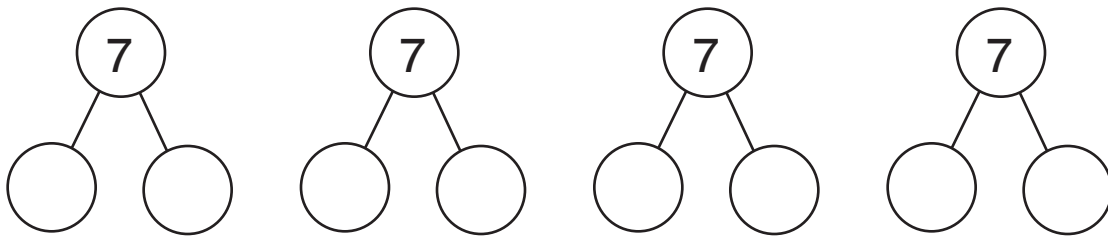
Number Bonds for 5



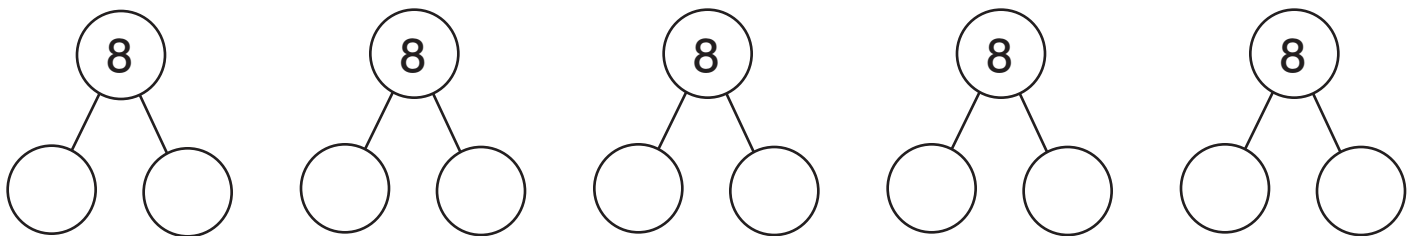
Number Bonds for 6



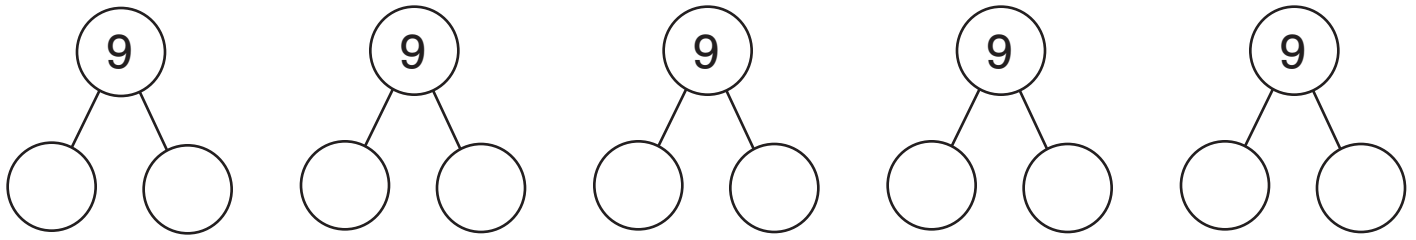
Number Bonds for 7



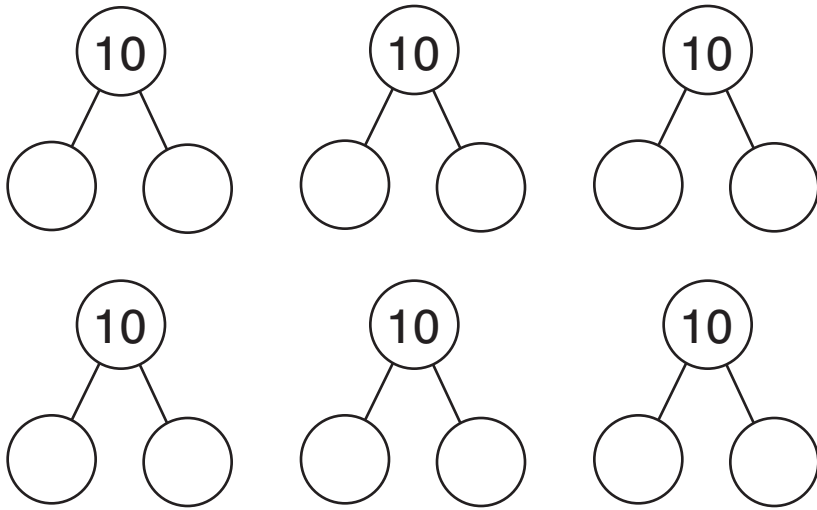
Number Bonds for 8



Number Bonds for 9



Number Bonds for 10



0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

+

—

=

1
2
3
4
5
6
7
8
9
10

zero

one

two

three

four

five

six

seven

eight

nine

ten

eleven

twelve

thirteen

fourteen

fifteen

sixteen

seventeen

eighteen

nineteen

twenty

1st

2nd

3rd

4th

5th

6th

7th

8th

9th

10th

first

second

third

fourth

fifth

sixth

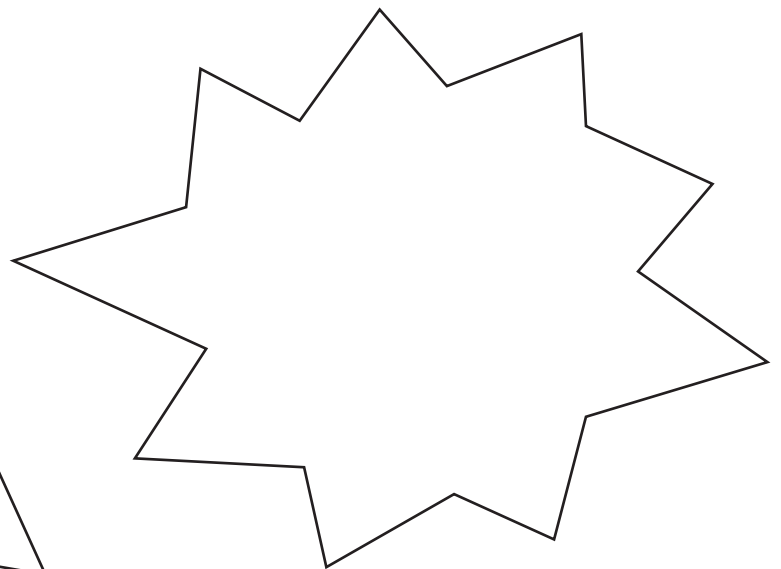
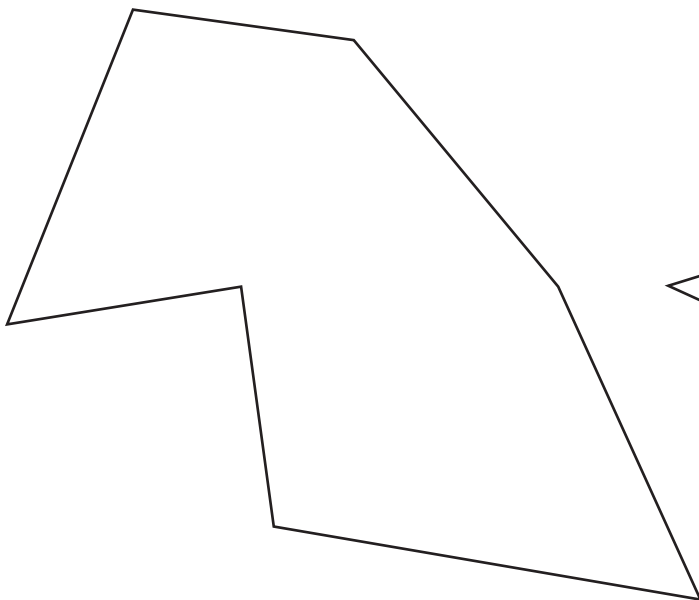
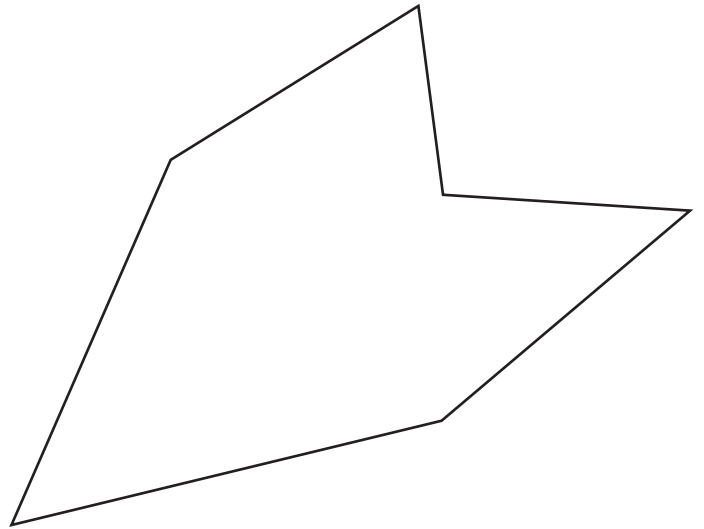
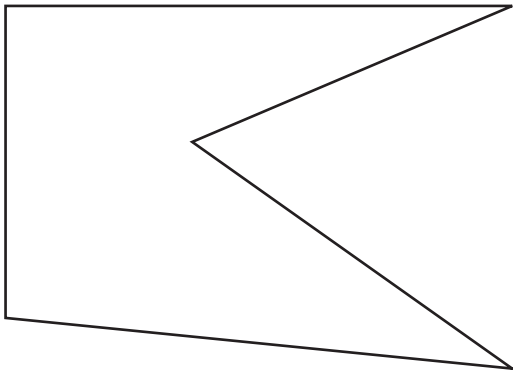
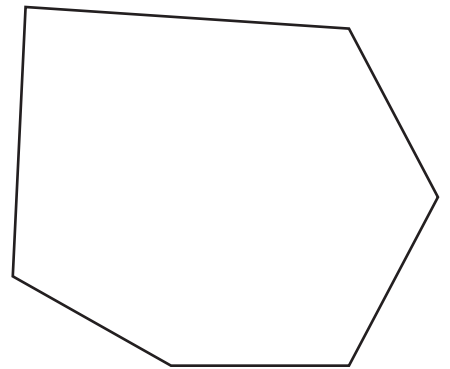
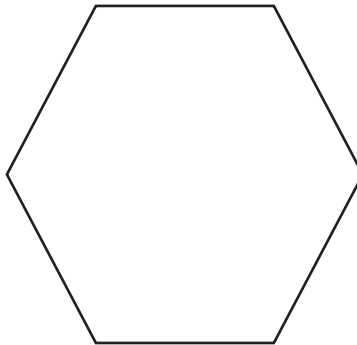
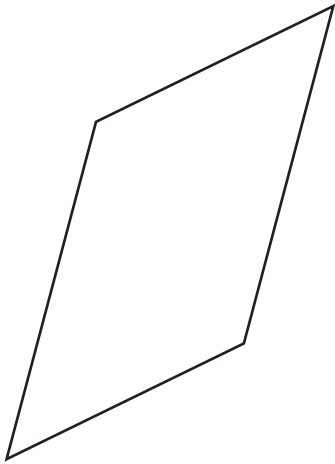
seventh

eighth

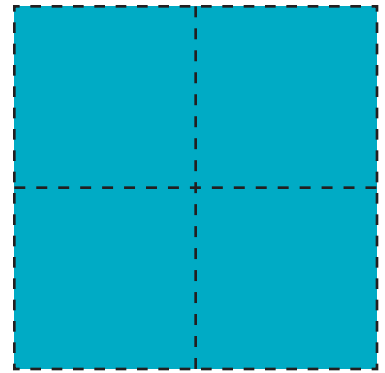
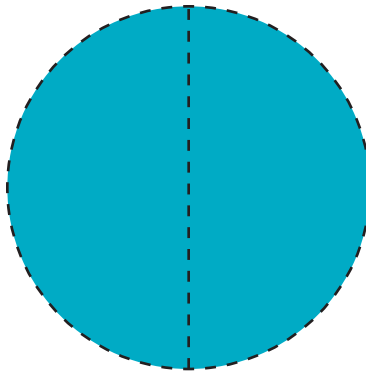
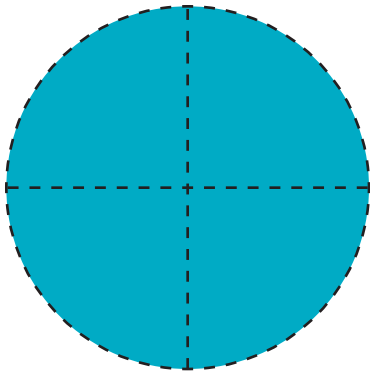
ninth

tenth

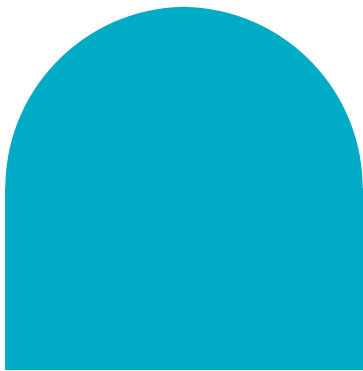
Draw lines to split each shape into triangles.



Cut along the dotted lines.



Make each of these shapes.



$10 - 1$

$10 - 2$

$10 - 3$

$10 - 4$

$10 - 5$

$10 - 6$

$10 - 7$

$10 - 8$

$10 - 9$

$9 - 1$

$9 - 2$

$9 - 3$

$9 - 4$

$9 - 5$

$9 - 6$

$9 - 7$

$9 - 8$

$8 - 1$

$8 - 2$

$8 - 3$

$8 - 4$

$8 - 5$

$8 - 6$

$8 - 7$

$7 - 1$

$7 - 2$

$7 - 3$

$7 - 4$

$7 - 5$

$7 - 6$

$6 - 1$

$6 - 2$

$6 - 3$

$6 - 4$

$6 - 5$

$5 - 1$

$5 - 2$

$5 - 3$

$5 - 4$

$4 - 1$

$4 - 2$

$4 - 3$

$3 - 1$

$3 - 2$

$2 - 1$

$11 - 2$

$11 - 3$

$11 - 4$

$11 - 5$

$11 - 6$

$11 - 7$

$11 - 8$

$11 - 9$

$12 - 3$

$12 - 4$

$12 - 5$

$12 - 6$

$12 - 7$

$12 - 8$

$12 - 9$

$13 - 4$

$13 - 5$

$13 - 6$

$13 - 7$

$13 - 8$

$13 - 9$

$14 - 5$

$14 - 6$

$14 - 7$

$14 - 8$

$14 - 9$

$15 - 6$

$15 - 7$

$15 - 8$

$15 - 9$

$16 - 7$

$16 - 8$

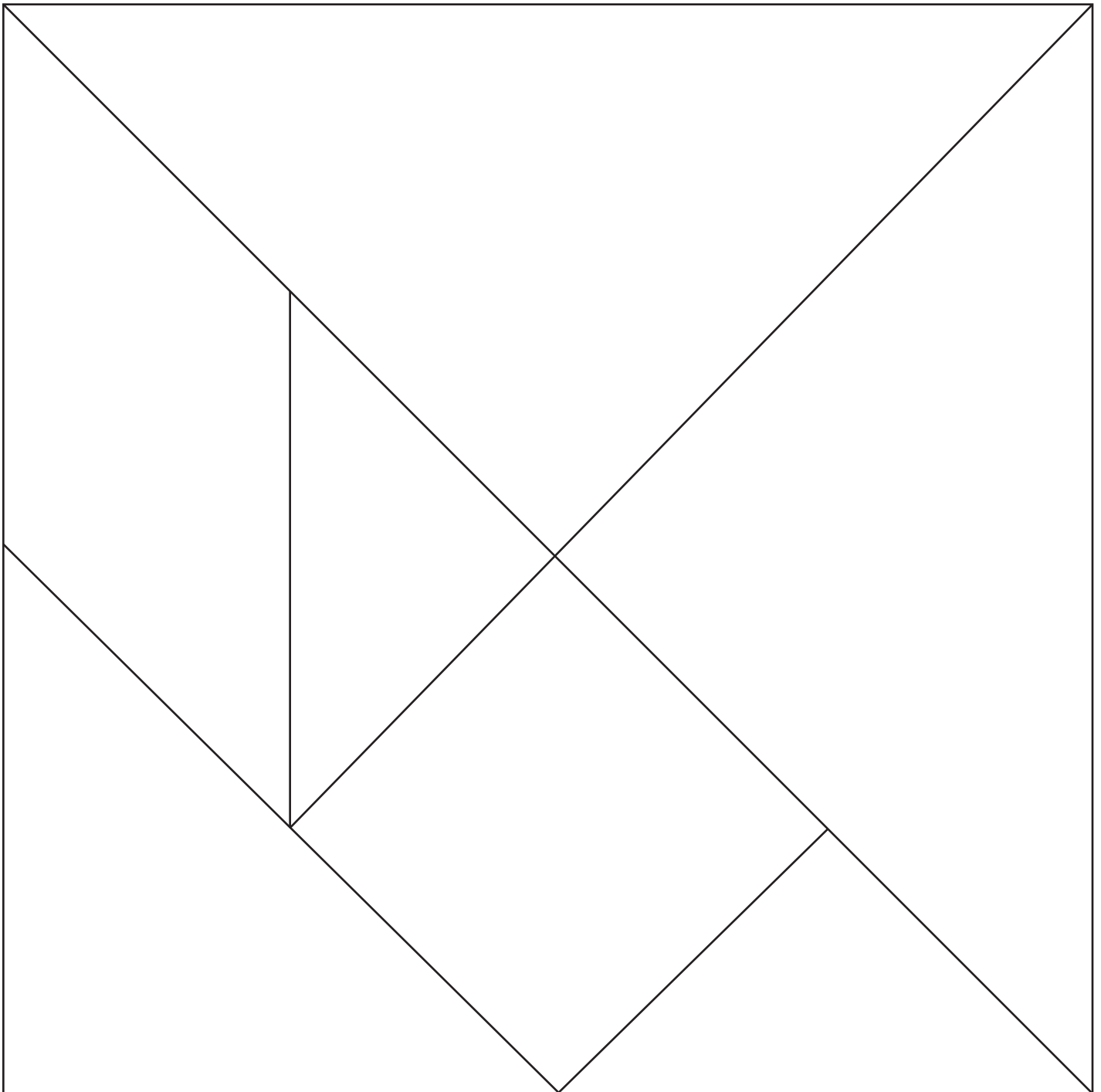
$16 - 9$

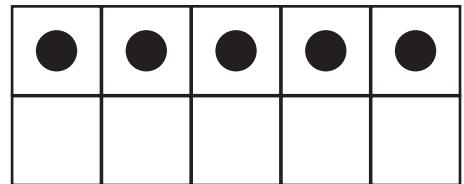
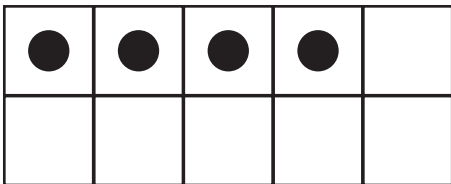
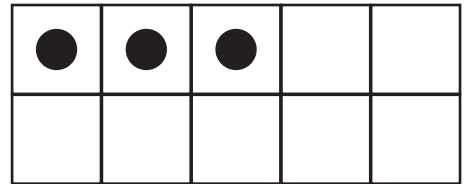
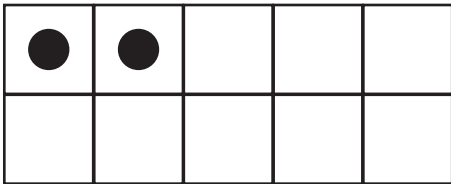
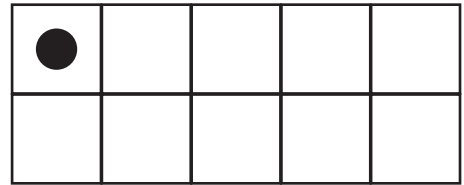
$17 - 8$

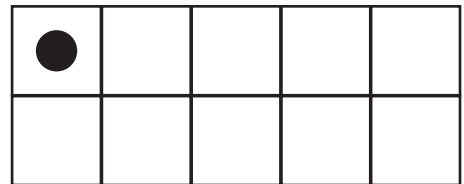
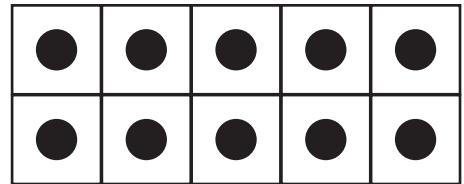
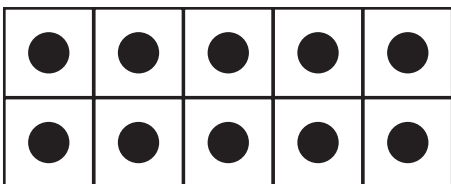
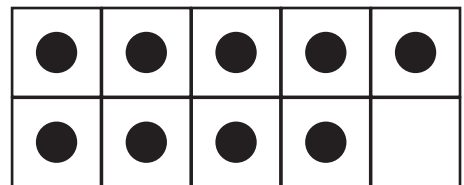
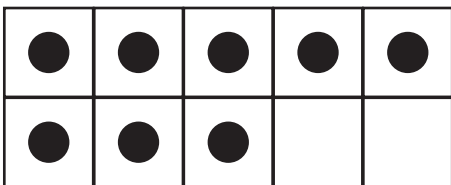
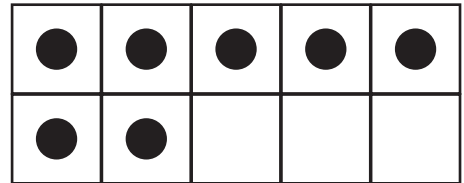
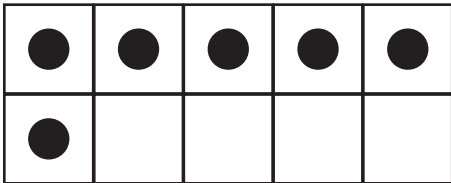
$17 - 9$

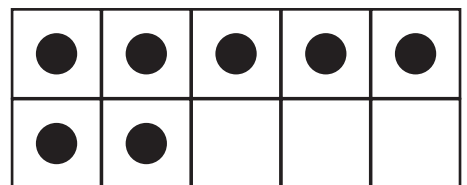
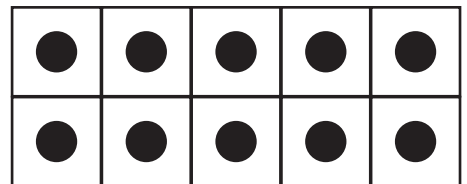
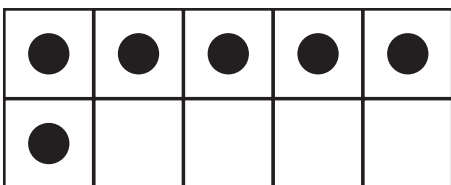
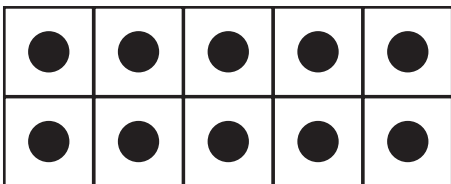
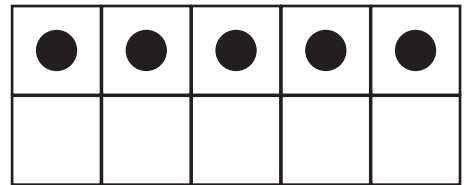
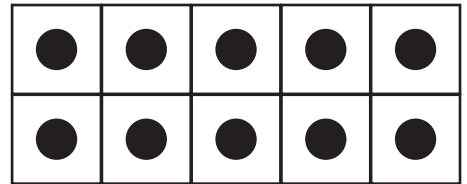
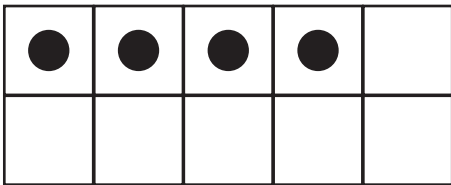
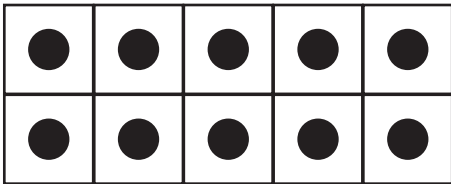
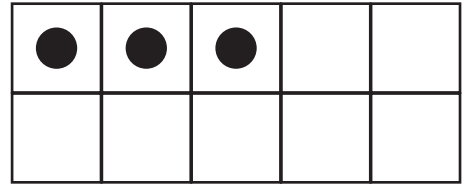
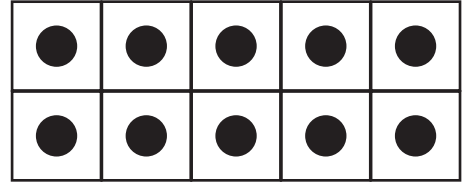
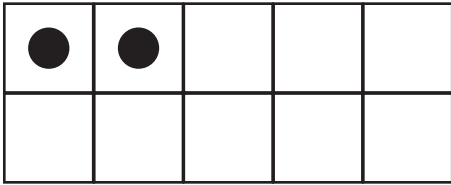
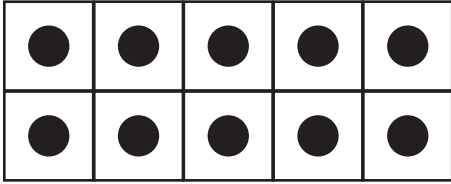
$18 - 9$

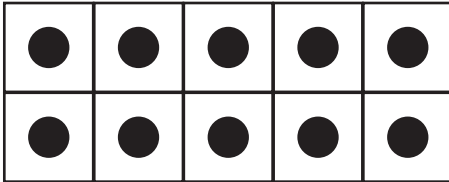
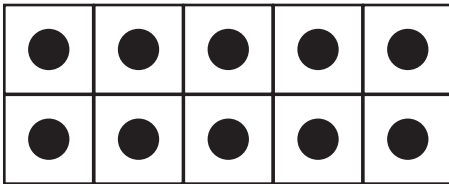
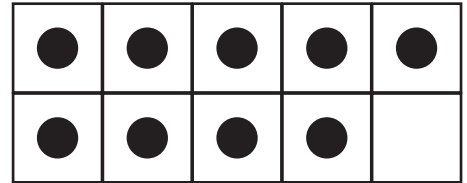
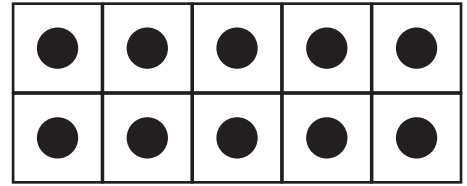
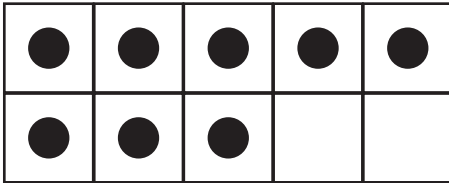
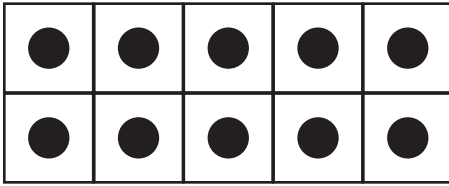
Cut on the solid lines.



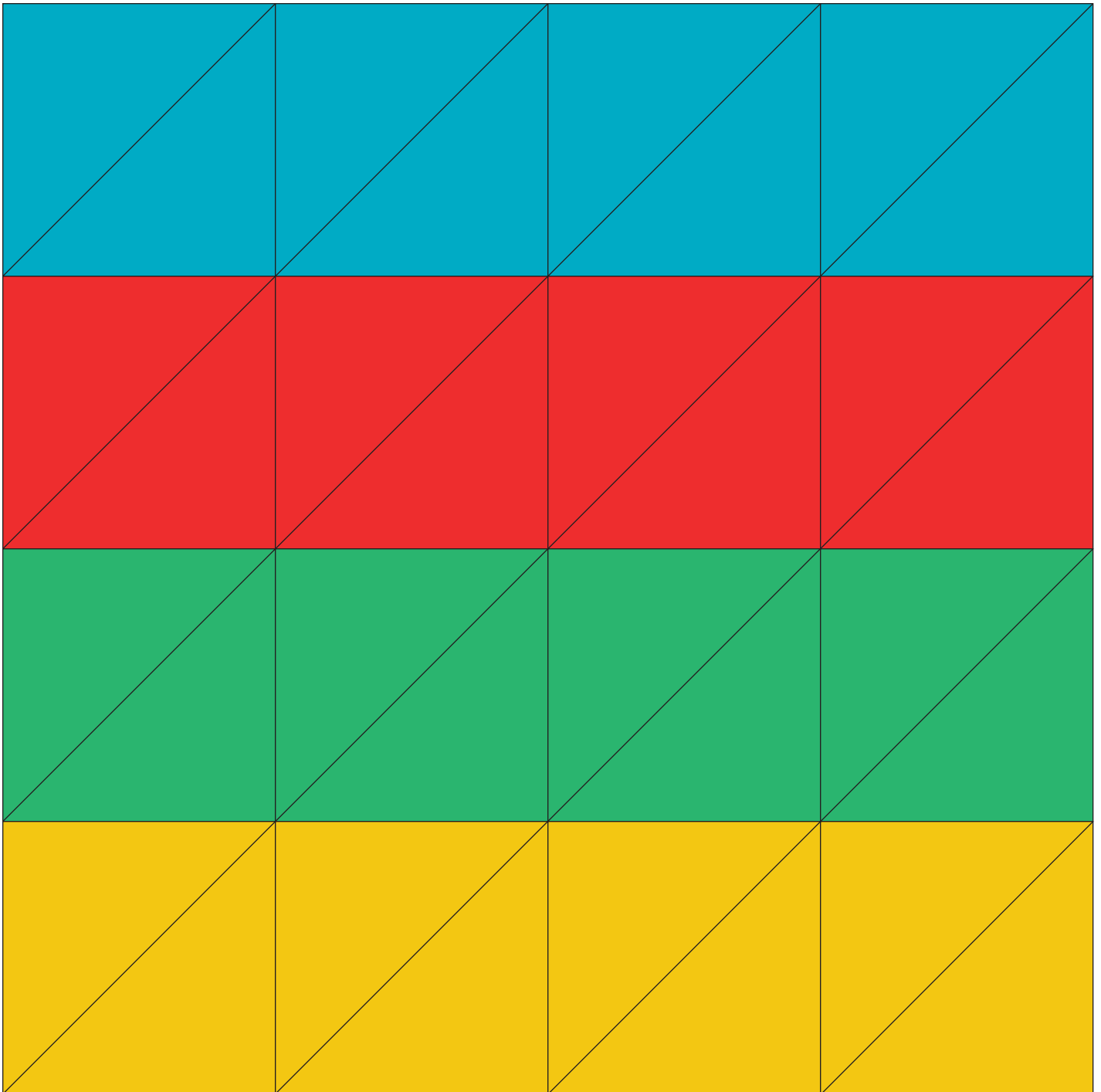








Triangles for Lesson 8-4.



Mental Math 1

$2 + 2 = \underline{\quad}$

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$3 + 2 = \underline{\quad}$

$0 + 1 = \underline{\quad}$

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$3 + 1 = \underline{\quad}$

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$1 + 1 = \underline{\quad}$

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$4 + 0 = \underline{\quad}$

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$0 + 0 = \underline{\quad}$

Mental Math 2

$1 + 9 = \underline{\quad}$

$1 + 6 = \underline{\quad}$

$3 + 3 = \underline{\quad}$

$8 + 2 = \underline{\quad}$

$5 + 1 = \underline{\quad}$

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$3 + 2 = \underline{\quad}$

$8 + 1 = \underline{\quad}$

$6 + 3 = \underline{\quad}$

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Mental Math 3

$4 + 2 = \underline{\quad}$

$3 + 7 = \underline{\quad}$

$7 + 2 = \underline{\quad}$

$9 + 1 = \underline{\quad}$

$1 + 8 = \underline{\quad}$

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$7 + 1 = \underline{\quad}$

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$2 + 8 = \underline{\quad}$

$1 + 1 = \underline{\quad}$

Mental Math 4

$5 + 5 = \underline{\quad}$

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Mental Math 5

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$3 + 7 = \underline{\quad}$

$8 + 1 = \underline{\quad}$

$2 + 6 = \underline{\quad}$

Mental Math 6

$3 - 1 = \underline{\quad}$

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$9 - 2 = \underline{\quad}$

$10 - 1 = \underline{\quad}$

$3 - 3 = \underline{\quad}$

$7 - 3 = \underline{\quad}$

$9 - 1 = \underline{\quad}$

$2 - 2 = \underline{\quad}$

$6 - 1 = \underline{\quad}$

$10 - 2 = \underline{\quad}$

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$9 - 3 = \underline{\quad}$

$7 - 2 = \underline{\quad}$

$3 - 2 = \underline{\quad}$

$2 - 1 = \underline{\quad}$

Mental Math 7

$10 - 3 = \underline{\quad}$

$5 - 2 = \underline{\quad}$

$1 - 1 = \underline{\quad}$

$8 - 3 = \underline{\quad}$

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$7 - 2 = \underline{\quad}$

Mental Math 8

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$10 - 9 = \underline{\quad}$

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Mental Math 9

$10 - 4 = \underline{\quad}$

$9 - 6 = \underline{\quad}$

$5 - 1 = \underline{\quad}$

$7 - 2 = \underline{\quad}$

$9 - 9 = \underline{\quad}$

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Mental Math 10

$10 - 9 = \underline{\quad}$

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$7 - 4 = \underline{\quad}$

$10 - 5 = \underline{\quad}$

Mental Math 11

$7 - 1 = \underline{\quad}$

$6 - 5 = \underline{\quad}$

$8 - 5 = \underline{\quad}$

$9 - 4 = \underline{\quad}$

$10 - 1 = \underline{\quad}$

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$6 - 1 = \underline{\quad}$

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$9 - 2 = \underline{\quad}$

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Mental Math 12

$4 - 4 = \underline{\quad}$

$5 + 1 = \underline{\quad}$

$7 - 5 = \underline{\quad}$

$4 + 3 = \underline{\quad}$

$8 - 2 = \underline{\quad}$

$10 - 7 = \underline{\quad}$

$3 + 6 = \underline{\quad}$

$1 + 9 = \underline{\quad}$

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$10 - 6 = \underline{\quad}$

$7 + 2 = \underline{\quad}$

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$10 - 8 = \underline{\quad}$

Mental Math 13

$3 + 4 = \underline{\quad}$

$10 - 4 = \underline{\quad}$

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$9 - 8 = \underline{\quad}$

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$2 - 1 = \underline{\quad}$

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$6 + 2 = \underline{\quad}$

$10 - 2 = \underline{\quad}$

$4 - 1 = \underline{\quad}$

$5 + 4 = \underline{\quad}$

Mental Math 14

$8 + 1 = \underline{\quad}$

$10 - 3 = \underline{\quad}$

$2 + 5 = \underline{\quad}$

$8 - 3 = \underline{\quad}$

$7 - 3 = \underline{\quad}$

$4 + 6 = \underline{\quad}$

$9 - 4 = \underline{\quad}$

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$3 + 1 = \underline{\quad}$

$9 - 2 = \underline{\quad}$

$10 - 5 = \underline{\quad}$

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$6 + 3 = \underline{\quad}$

Mental Math 15

$1 + 1 = \underline{\quad}$

$9 - 5 = \underline{\quad}$

$6 + 4 = \underline{\quad}$

$5 + 3 = \underline{\quad}$

$7 - 6 = \underline{\quad}$

$4 + 2 = \underline{\quad}$

$7 - 4 = \underline{\quad}$

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$9 - 3 = \underline{\quad}$

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$2 + 2 = \underline{\quad}$

$6 - 1 = \underline{\quad}$

$1 + 5 = \underline{\quad}$

$9 - 7 = \underline{\quad}$

Mental Math 16

$10 + 8 = \underline{\quad}$

$13 - 3 = \underline{\quad}$

$2 + 10 = \underline{\quad}$

$15 - 10 = \underline{\quad}$

$10 + 4 = \underline{\quad}$

$18 - 10 = \underline{\quad}$

$17 - 7 = \underline{\quad}$

$6 + 10 = \underline{\quad}$

$7 + 10 = \underline{\quad}$

$11 - 10 = \underline{\quad}$

$19 - 10 = \underline{\quad}$

$16 - 6 = \underline{\quad}$

$10 + 5 = \underline{\quad}$

$10 + 1 = \underline{\quad}$

$14 - 10 = \underline{\quad}$

$3 + 10 = \underline{\quad}$

$12 - 2 = \underline{\quad}$

$9 + 10 = \underline{\quad}$

Mental Math 17

$10 + \underline{\quad} = 12$

$5 + \underline{\quad} = 15$

$16 - \underline{\quad} = 6$

$\underline{\quad} - 8 = 10$

$10 + \underline{\quad} = 16$

$\underline{\quad} + 10 = 14$

$12 - \underline{\quad} = 2$

$19 - \underline{\quad} = 10$

$10 + \underline{\quad} = 17$

$\underline{\quad} + 10 = 11$

$\underline{\quad} - 10 = 7$

$11 - \underline{\quad} = 10$

$\underline{\quad} + 3 = 13$

$\underline{\quad} + 10 = 18$

$15 - \underline{\quad} = 10$

$\underline{\quad} + 9 = 19$

$\underline{\quad} - 10 = 3$

$\underline{\quad} - 4 = 10$

Mental Math 18

$12 + 1 = \underline{\quad}$

$15 + 2 = \underline{\quad}$

$19 + 1 = \underline{\quad}$

$18 - 1 = \underline{\quad}$

$14 - 2 = \underline{\quad}$

$13 + 1 = \underline{\quad}$

$17 + 2 = \underline{\quad}$

$16 - 2 = \underline{\quad}$

$19 - 1 = \underline{\quad}$

$17 + 1 = \underline{\quad}$

$14 + 2 = \underline{\quad}$

$16 + 1 = \underline{\quad}$

$17 - 2 = \underline{\quad}$

$19 - \underline{\quad} = 11$

$18 + \underline{\quad} = 19$

$13 + \underline{\quad} = 15$

$18 - \underline{\quad} = 16$

$15 - \underline{\quad} = 14$

Mental Math 19

$13 - 1 = \underline{\quad}$

$15 - 2 = \underline{\quad}$

$11 + 1 = \underline{\quad}$

$13 - 2 = \underline{\quad}$

$15 + 1 = \underline{\quad}$

$17 - 2 = \underline{\quad}$

$14 - 1 = \underline{\quad}$

$11 + 2 = \underline{\quad}$

$16 + 2 = \underline{\quad}$

$19 - 2 = \underline{\quad}$

$20 - 1 = \underline{\quad}$

$16 - 1 = \underline{\quad}$

$14 + 1 = \underline{\quad}$

$20 - \underline{\quad} = 18$

$18 + \underline{\quad} = 20$

$12 + \underline{\quad} = 14$

$19 - \underline{\quad} = 17$

$11 + \underline{\quad} = 14$

Mental Math 20

$11 + 6 = \underline{\quad}$

$13 + 5 = \underline{\quad}$

$3 + 12 = \underline{\quad}$

$15 + 3 = \underline{\quad}$

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$11 + \underline{\quad} = 19$

$\underline{\quad} + 5 = 17$

$12 + \underline{\quad} = 16$

$\underline{\quad} + 5 = 19$

Mental Math 21

$19 - 4 = \underline{\quad}$

$18 - 5 = \underline{\quad}$

$17 - 6 = \underline{\quad}$

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$19 - 5 = \underline{\quad}$

$18 - 6 = \underline{\quad}$

$16 - 5 = \underline{\quad}$

$19 - 6 = \underline{\quad}$

$16 - 4 = \underline{\quad}$

$17 - \underline{\quad} = 12$

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Mental Math 22

$13 + 6 = \underline{\quad}$

$18 - 7 = \underline{\quad}$

$15 + 3 = \underline{\quad}$

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$13 + 6 = \underline{\quad}$

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$16 + 3 = \underline{\quad}$

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Mental Math 23

$9 + 2 = \underline{\quad}$

$7 + 4 = \underline{\quad}$

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Mental Math 24

$7 + 6 = \underline{\quad}$

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Mental Math 25

$5 + 6 = \underline{\quad}$

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$7 + 5 = \underline{\quad}$

$4 + 9 = \underline{\quad}$

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Mental Math 26

$6 + 6 = \underline{\quad}$

$6 + 9 = \underline{\quad}$

$3 + 9 = \underline{\quad}$

$4 + 3 = \underline{\quad}$

$2 + 15 = \underline{\quad}$

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$12 + 6 = \underline{\quad}$

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$4 + 15 = \underline{\quad}$

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Mental Math 27

$7 + 4 = \underline{\quad}$

$9 + 9 = \underline{\quad}$

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$7 + 9 = \underline{\quad}$

Mental Math 28

$11 - 9 = \underline{\quad} + 1$

$14 - 8 = \underline{\quad} + 4$

$11 - 4 = \underline{\quad} + 1$

$12 - 9 = \underline{\quad} + 2$

$13 - 7 = \underline{\quad} + 3$

$11 - 3 = \underline{\quad} + 1$

$12 - 7 = \underline{\quad} + 2$

$12 - 8 = \underline{\quad} + 2$

$14 - 9 = \underline{\quad} + 4$

$11 - 8 = \underline{\quad} + 1$

$11 - 6 = \underline{\quad} + 1$

$16 - 8 = \underline{\quad} + 6$

$14 - 5 = \underline{\quad} + 4$

$13 - 9 = \underline{\quad} + 3$

$16 - 7 = \underline{\quad} + 6$

$13 - 4 = \underline{\quad} + 3$

$13 - 6 = \underline{\quad} + 3$

$15 - 9 = \underline{\quad} + 5$

Mental Math 29

$11 - 2 = 10 - \underline{\quad}$

$15 - 8 = 10 - \underline{\quad}$

$13 - 5 = 10 - \underline{\quad}$

$16 - 9 = 10 - \underline{\quad}$

$11 - 5 = 10 - \underline{\quad}$

$13 - 8 = 10 - \underline{\quad}$

$14 - 6 = 10 - \underline{\quad}$

$18 - 9 = 10 - \underline{\quad}$

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$17 - 8 = 10 - \underline{\quad}$

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$15 - 7 = 10 - \underline{\quad}$

$15 - 6 = 10 - \underline{\quad}$

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$12 - 3 = 10 - \underline{\quad}$

Mental Math 30

$11 - 3 = \underline{\quad}$

$13 - 7 = \underline{\quad}$

$18 - 9 = \underline{\quad}$

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Mental Math 31

$14 - 6 = \underline{\quad}$

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$14 - 9 = \underline{\quad}$

Mental Math 32

$4 + 8 = \underline{\quad}$

$13 - 9 = \underline{\quad}$

$7 + 5 = \underline{\quad}$

$9 + 6 = \underline{\quad}$

$11 - 9 = \underline{\quad}$

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$19 - 5 = \underline{\quad}$

$4 + 5 = \underline{\quad}$

Mental Math 33

$4 + 4 = \underline{\quad}$

$5 + 8 = \underline{\quad}$

$11 - 3 = \underline{\quad}$

$14 - 9 = \underline{\quad}$

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$18 - 4 = \underline{\quad}$

Mental Math 34

$8 + 4 = \underline{\quad}$

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$12 - 5 = \underline{\quad}$

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$16 - 9 = \underline{\quad}$

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$11 - 8 = \underline{\quad}$

$14 - 5 = \underline{\quad}$

$6 + 9 = \underline{\quad}$

$18 - 3 = \underline{\quad}$

$7 + 8 = \underline{\quad}$

$13 - 7 = \underline{\quad}$

$8 + 9 = \underline{\quad}$

$17 - 3 = \underline{\quad}$

Mental Math 35

$11 - 5 = \underline{\quad}$

$6 + 6 = \underline{\quad}$

$2 + 9 = \underline{\quad}$

$18 - 9 = \underline{\quad}$

$9 + 5 = \underline{\quad}$

$13 - 5 = \underline{\quad}$

$9 + 7 = \underline{\quad}$

$12 - 9 = \underline{\quad}$

$14 - 6 = \underline{\quad}$

$16 - 8 = \underline{\quad}$

$6 + 5 = \underline{\quad}$

$15 - 7 = \underline{\quad}$

$4 + 7 = \underline{\quad}$

$9 + 9 = \underline{\quad}$

$20 - 2 = \underline{\quad}$

$3 + 8 = \underline{\quad}$

$12 - 2 = \underline{\quad}$

$3 + 9 = \underline{\quad}$

Mental Math 36

$12 - 8 = \underline{\quad}$

$8 + 6 = \underline{\quad}$

$5 + 12 = \underline{\quad}$

$14 - 8 = \underline{\quad}$

$8 + 7 = \underline{\quad}$

$4 + 9 = \underline{\quad}$

$7 + 7 = \underline{\quad}$

$13 - 6 = \underline{\quad}$

$16 - 6 = \underline{\quad}$

$5 + 9 = \underline{\quad}$

$8 + 3 = \underline{\quad}$

$11 - 6 = \underline{\quad}$

$15 - 9 = \underline{\quad}$

$9 + 8 = \underline{\quad}$

$17 - 8 = \underline{\quad}$

$9 + 3 = \underline{\quad}$

$11 - 7 = \underline{\quad}$

$17 - 1 = \underline{\quad}$

MM 1	MM 2	MM 3	MM 4	MM 5	MM 6	MM 7	MM 8	MM 9
4	10	6	10	6	2	7	1	6
3	7	10	6	9	6	3	2	3
5	6	9	10	10	2	0	3	4
1	10	10	9	9	7	5	1	5
2	6	9	6	9	9	7	2	0
5	8	7	5	9	0	4	1	4
5	5	7	9	7	4	2	1	2
4	9	8	8	8	8	1	3	2
5	9	7	9	10	0	8	1	1
3	7	8	10	10	5	3	2	3
2	8	5	7	8	8	4	2	1
5	5	6	10	7	1	2	3	3
4	9	9	8	5	4	8	1	2
4	7	8	10	7	6	3	2	4
5	6	5	7	10	6	7	2	4
2	8	4	9	10	5	0	1	1
4	10	10	8	9	1	6	3	2
0	4	2	4	8	1	5	3	6
MM 10	MM 11	MM 12	MM 13	MM 14	MM 15	MM 16	MM 17	MM 18
1	6	0	7	9	2	18	2	13
6	1	6	6	7	4	10	10	17
2	3	2	9	7	10	12	10	20
1	5	7	1	5	8	5	18	17
2	9	6	3	4	1	14	6	12
7	6	3	8	10	6	8	4	14
3	2	9	5	5	3	10	10	19
1	0	10	4	6	4	16	9	14
8	3	10	10	5	6	17	7	18
5	3	1	0	8	9	1	1	18
5	4	6	1	3	1	9	17	16
4	3	10	7	8	10	10	1	17
2	1	3	9	10	3	15	10	15
4	7	4	4	4	1	11	8	8
1	5	9	8	7	4	4	5	1
2	5	2	8	5	5	13	10	2
3	7	1	3	1	6	10	13	2
5	2	2	9	9	2	19	14	1

MM 19	MM 20	MM 21	MM 22	MM 23	MM 24	MM 25	MM 26	MM 27
12	17	15	19	11	13	11	12	11
13	18	13	11	11	16	16	15	18
12	15	11	18	12	13	12	12	13
11	18	12	14	14	12	13	7	12
16	19	13	13	13	15	11	17	10
15	14	15	19	14	14	12	13	14
13	17	11	18	16	17	17	17	17
13	19	13	13	12	18	15	9	14
18	15	12	11	13	15	13	20	11
17	16	14	14	12	11	12	16	16
19	19	12	15	15	12	18	11	16
15	18	11	18	11	13	15	14	17
15	18	13	14	11	11	11	18	15
2	17	12	12	16	14	11	13	7
2	8	5	19	12	11	14	11	16
2	12	19	13	13	14	14	19	12
2	4	4	19	11	17	14	15	12
3	14	17	17	12	15	13	10	16

MM 28	MM 29	MM 30	MM 31	MM 32	MM 33	MM 34	MM 35	MM 36
1	1	8	8	12	8	12	6	4
2	3	6	9	4	13	12	12	14
6	2	9	8	12	8	7	11	17
1	3	4	5	15	5	9	9	6
3	4	5	8	2	13	7	14	15
7	5	7	9	7	9	13	8	13
3	2	8	5	9	16	10	16	14
2	1	9	3	16	8	7	3	7
1	4	9	4	9	7	4	8	10
2	3	7	8	13	19	13	8	14
4	2	9	6	12	6	3	11	11
2	1	6	6	13	10	9	8	5
5	3	7	7	8	5	15	11	6
1	2	9	8	14	20	15	18	17
3	2	7	9	5	9	15	18	9
6	1	6	3	11	11	6	11	12
4	6	2	7	14	11	17	10	4
1	1	4	5	9	14	14	12	16