

1  
 $-2x = -30$

1

2  
 $3x - 2(x - 5) = 23$

2

$8 = x$

$x = 1$

$3(x + 2) = 21$

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3  
 $2(2 - 2x) = 20$   
 $3x + 12 = 12$

3

$2 = x$

$x = 7$

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5  
 $4(x + 4) + 2 = 10$

5

$x = 4$

$5 \cdot 2 = x$

$x = 10$

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7  
 $2(2x + 4) = 12$   
 $3x - 2(x - 5) = 20$

7

$x = -1$

$x = 11$

6

$x = 3$

$3(x - 5) + 10 = -20$   
 $4 = x$

4

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8  
 $4 + 2(x + 2) - (x - 1) = 16$

8

$3(2 - 3x) = 33$

$7x + (x - 5) = 19$

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$x = 3$

**9.**

$x = -6$

$x = -2$

$x = 14$

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$3x + 2(4 - 2x) - 9 = -13$

$x = -8$

**10**

$x = 5$

$4(x + 3) + 5 = 13$

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$3x + 2(x - 1) = 18$

$4(x + 3) - 4 = 16$

**11**

$x = 6$

$x = 7$

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$2(x - 5) = 6$

$2x + 3 = 25$

**12**

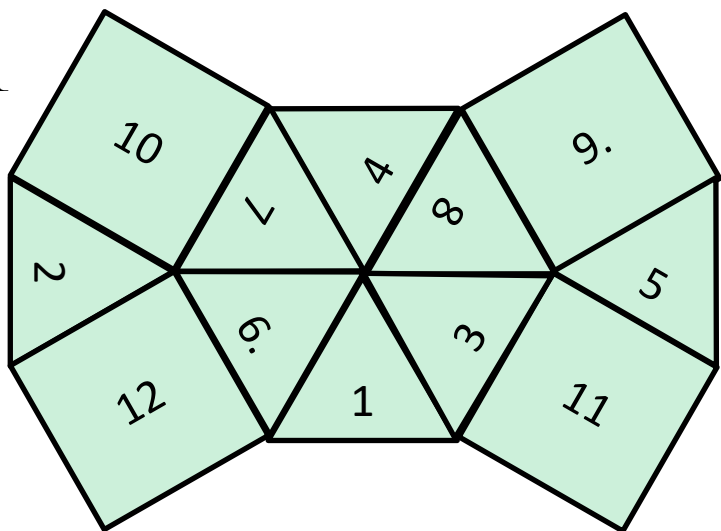
$x = -11$

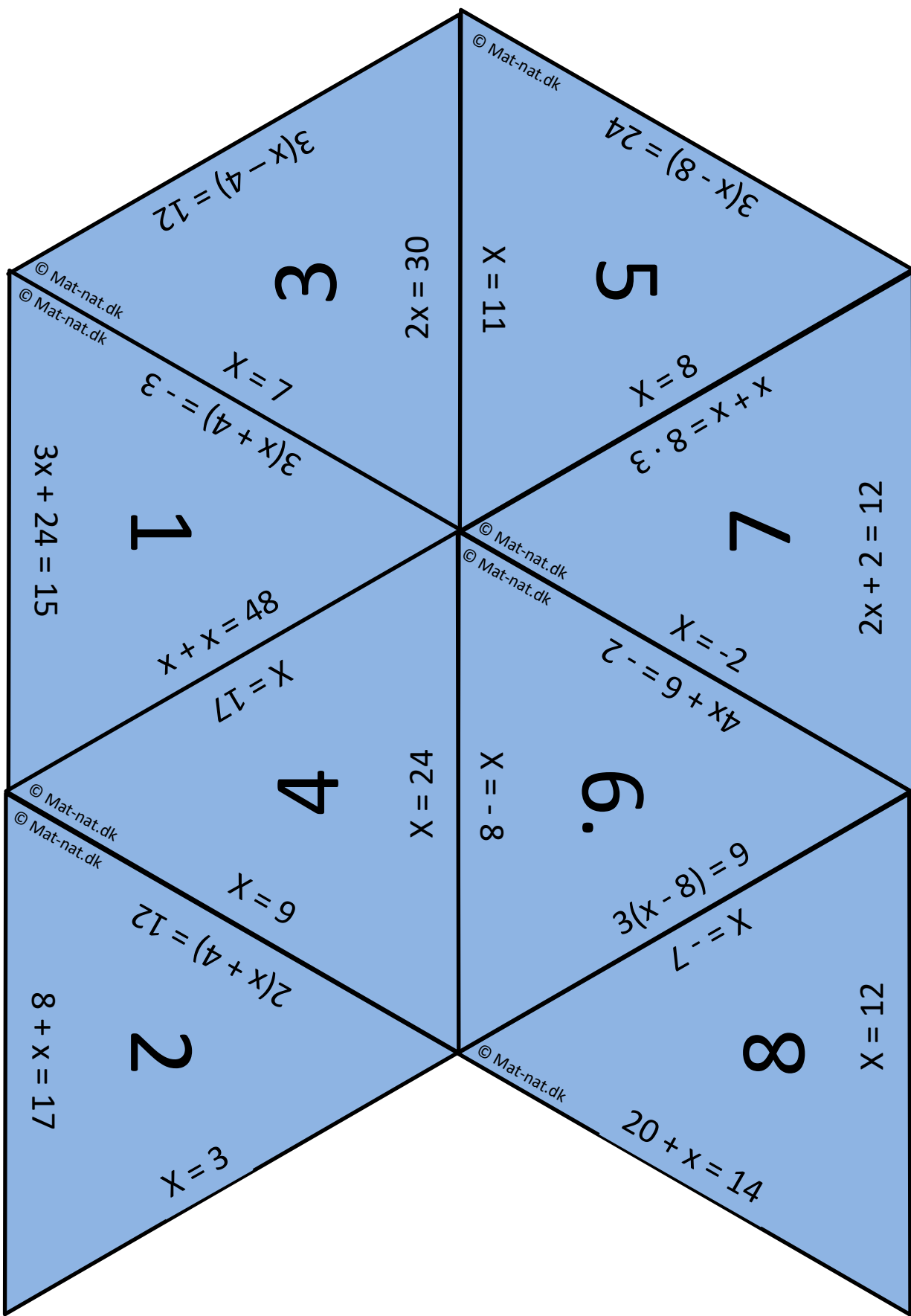
$3x + 2(x - 7) = 22$

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**NIVEAU 1**





$3x + 24 = 15$

1

$8 + x = 17$

2

$3 = x$

$2(x + 4) = 12$

4

$6 = x$

$47 = x$

$x = 17$

$87 = x + x$

1

$3(x + 4) = -3$

$x = 7$

3

$2x = 30$

$3(x - 4) = 12$

5

$x = 11$

$x + x = 8.3$   
 $8 = x$

$3(x - 8) = 24$

7

$4x + 6 = -2$   
 $-2 = x$

$x = -8$

6

$6 = (8 - x)3$   
 $x = -7$

$21 = 2 + x2$

$x = 12$

8

$20 + x = 14$

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$4x - 10 = 6$

$X = 2$

**9.**

$0 = X$

$2(8 + x) = 0$

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$X = 20$

$X = -12$

**10**

$21 = 21 - X + 4$

$X = 36$

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$X = -5$

$2(x + 3) = 6$

**11**

$1 = X$

$X = -6$

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$X = 4$

$X - 18 = 18$

**12**

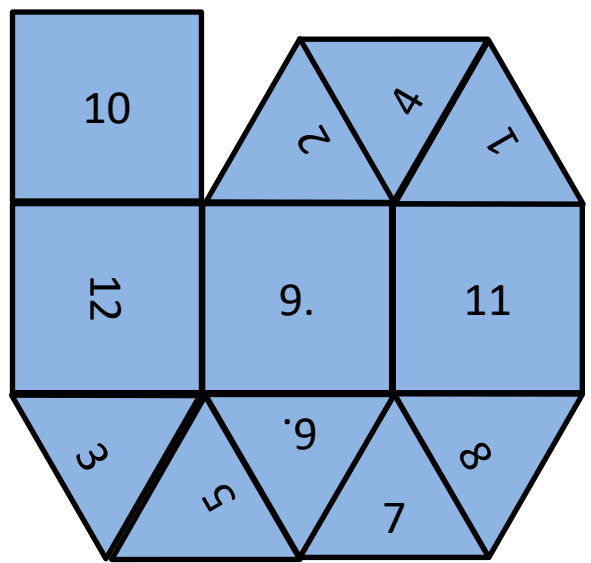
$2x + 3 = 25$

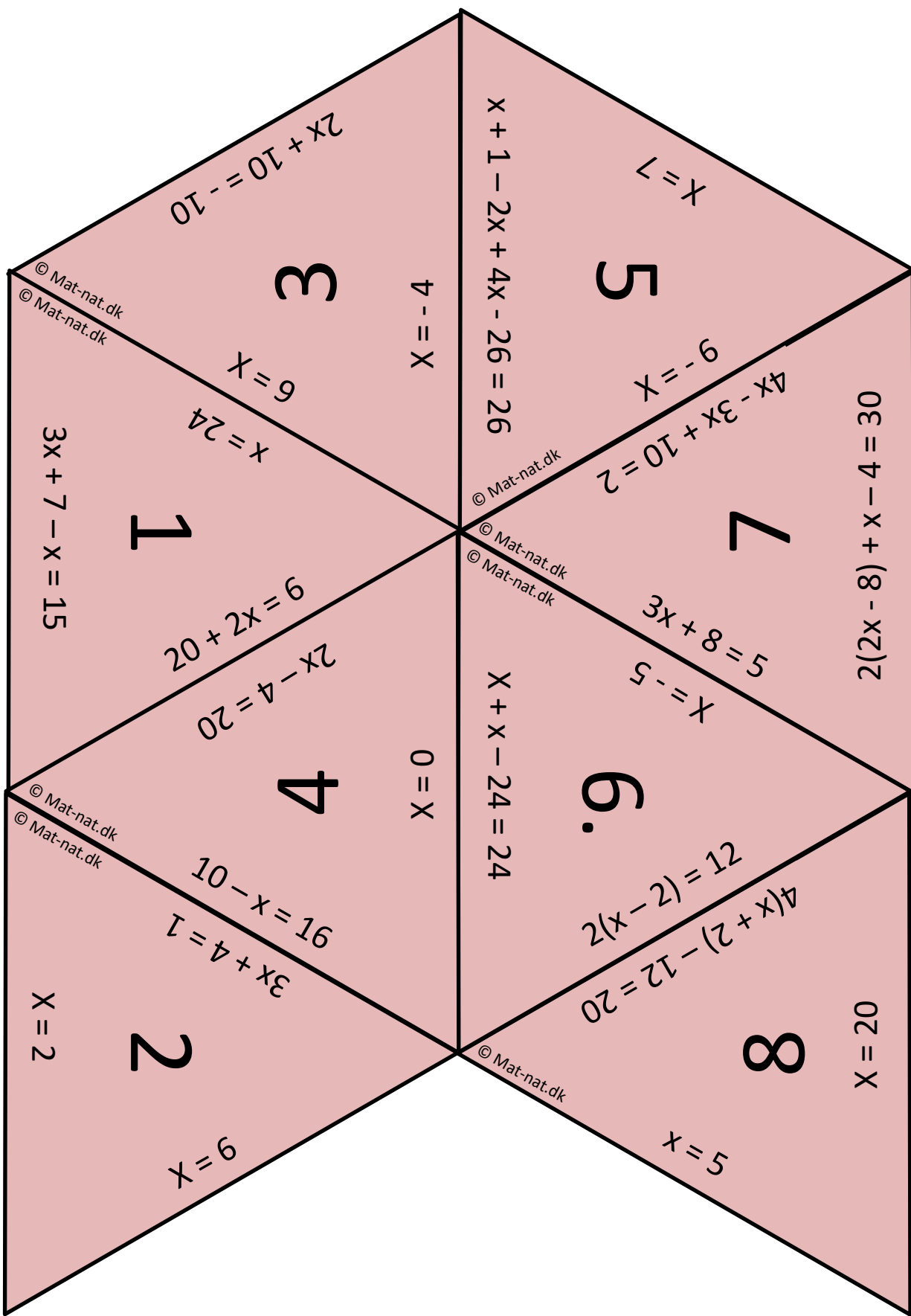
$3(2x - 20) = 24$

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**NIVEAU 1**





$$2x + 10 = -10$$

3

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$$4 - = x$$

$$x = 6$$

$$x = 24$$

1

$$3x + 7 - x = 15$$

$$9 = x$$

$$20 + 2x = 9$$

$$2x - 4 = 20$$

4

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$$0 = x$$

$$10 - x = 16$$

$$3x + 4 = 1$$

2

$$x = 2$$

$$9 = x$$

$$x + 1 - 2x + 4x - 26 = 26$$

5

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$$x = 7$$

$$9 - = x$$

$$4x - 3x + 10 = 2$$

7

$$0 = 4 - x + (8 - x^2)2$$

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$$3x + 8 = 5$$

$$x = -5$$

6

$$x + x - 24 = 24$$

$$21 = (2 - x)2$$

$$4(x + 2) - 12 = 20$$

8

$$0 = x$$

© Mat-nat.dk

$$x = 5$$

© Mat-nat.dk

$x = -2$

9.

$4x - (2x + 2) = 8$

$x = -8$

$2x + 3 + 5 + x - 12 = -7$

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$x + 10 = 1$

10

$2x + 2 - x - 4 + 2x - 12 = 10$

$2(x + 2) = 4$

$2x + x - 8 = -2$

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$x = -9$

11

$5x + 3 - 2x + 4 - x - 6 = 19$

$3x - 2x + x + 8 = 14$

$x = -2$

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$x = 17$

12

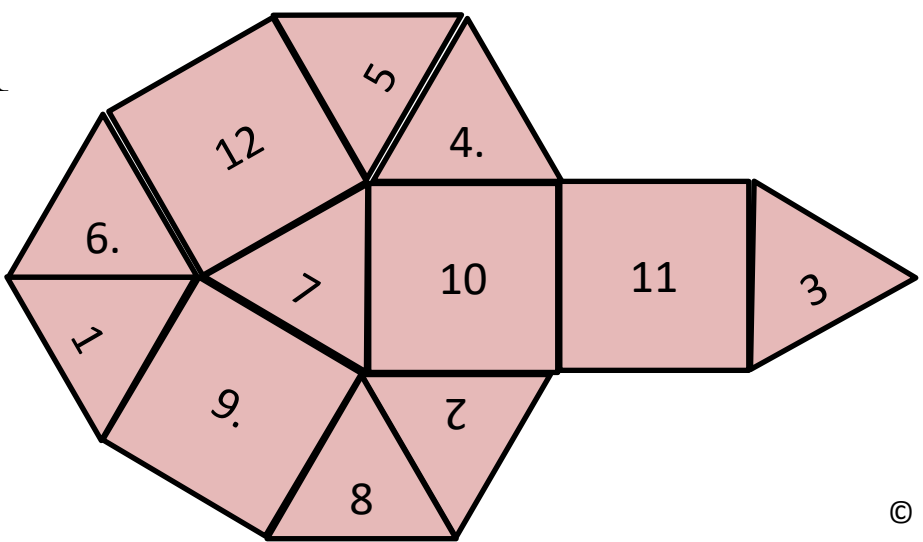
$3x = 45$

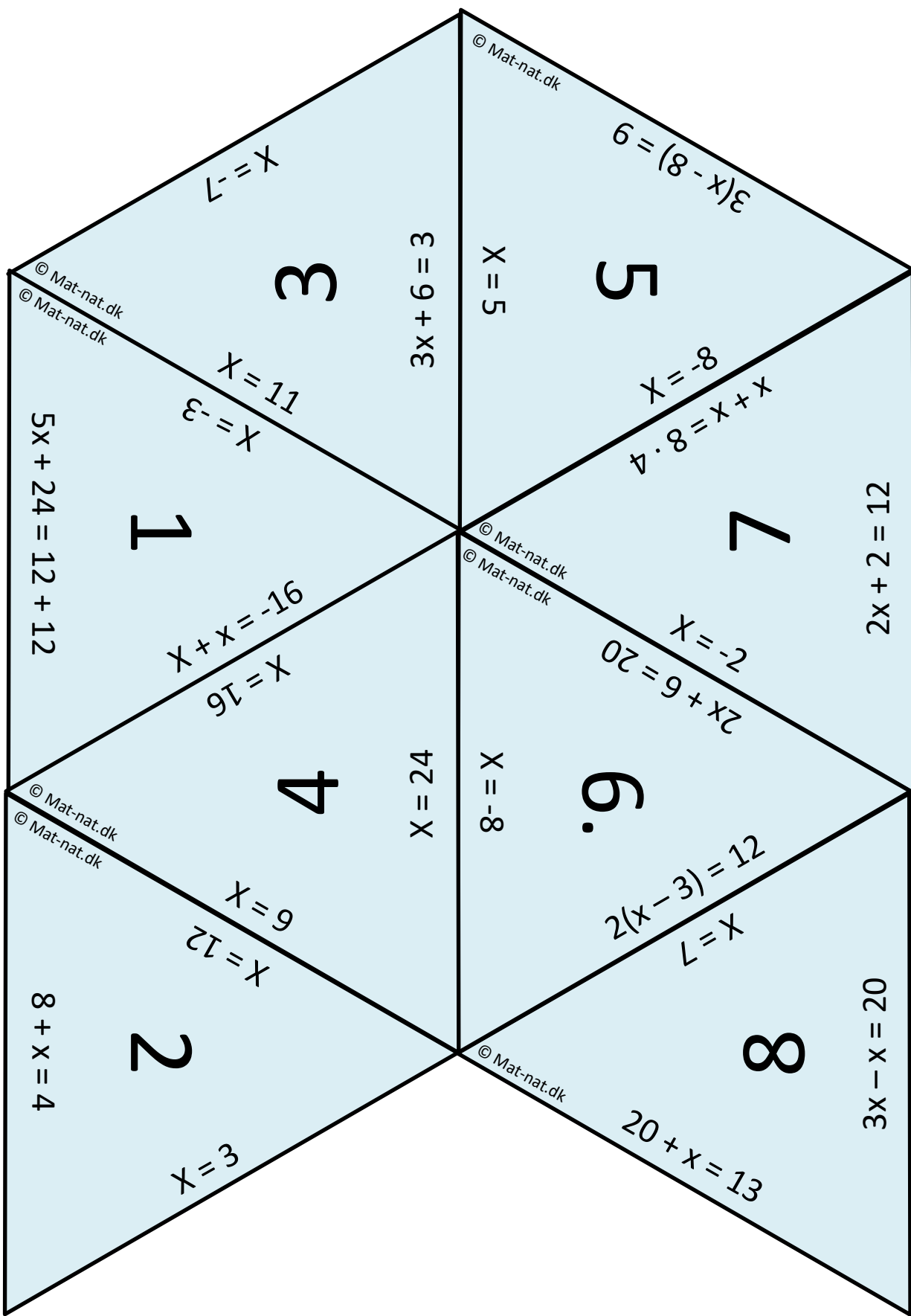
$x = 8$

$x = 1$



**NIVEAU 1**





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$$5x + 24 = 12 + 12$$

1

$$x + x = -16$$

$$x = 16$$

4

$$x = 24$$

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$$8 + x = 4$$

2

$$x = 3$$

$$x = 9$$

$$x = 12$$

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$$20 + x = 13$$

8

$$3x - x = 20$$

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$$2x + 6 = 20$$

$$x = -2$$

7

$$2x + 2 = 12$$

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$$6 = (8 - x) \cdot 3$$

5

$$x = 5$$

$$4 \cdot 8 = 8 \cdot 4$$

$$x = -8$$

$$x = -7$$

3

$$3x + 6 = 3$$

$X = 19$

**9.**

$0 = X$

$2x + 5 = 39$

$4x - 10 = 14$

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$X = 20$

**10**

$X = -12$

$X + 2 = 0$

$4x - 12 = 36$

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$X = 17$

**11**

$1 = X$

$3(x + 2) = 18$

$2(x + 1) = 6$

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$X = -4$

**12**

$X - 12 = 12$

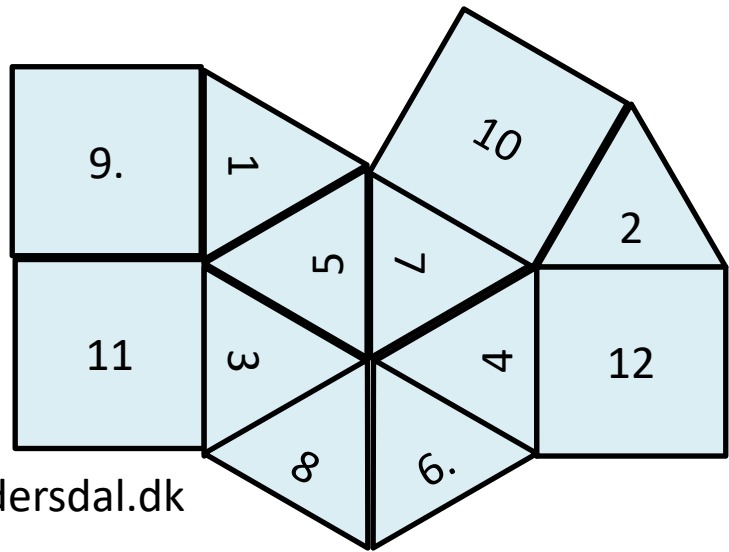
$3(2x - 20) = 24$

$2x + 3 = 33$

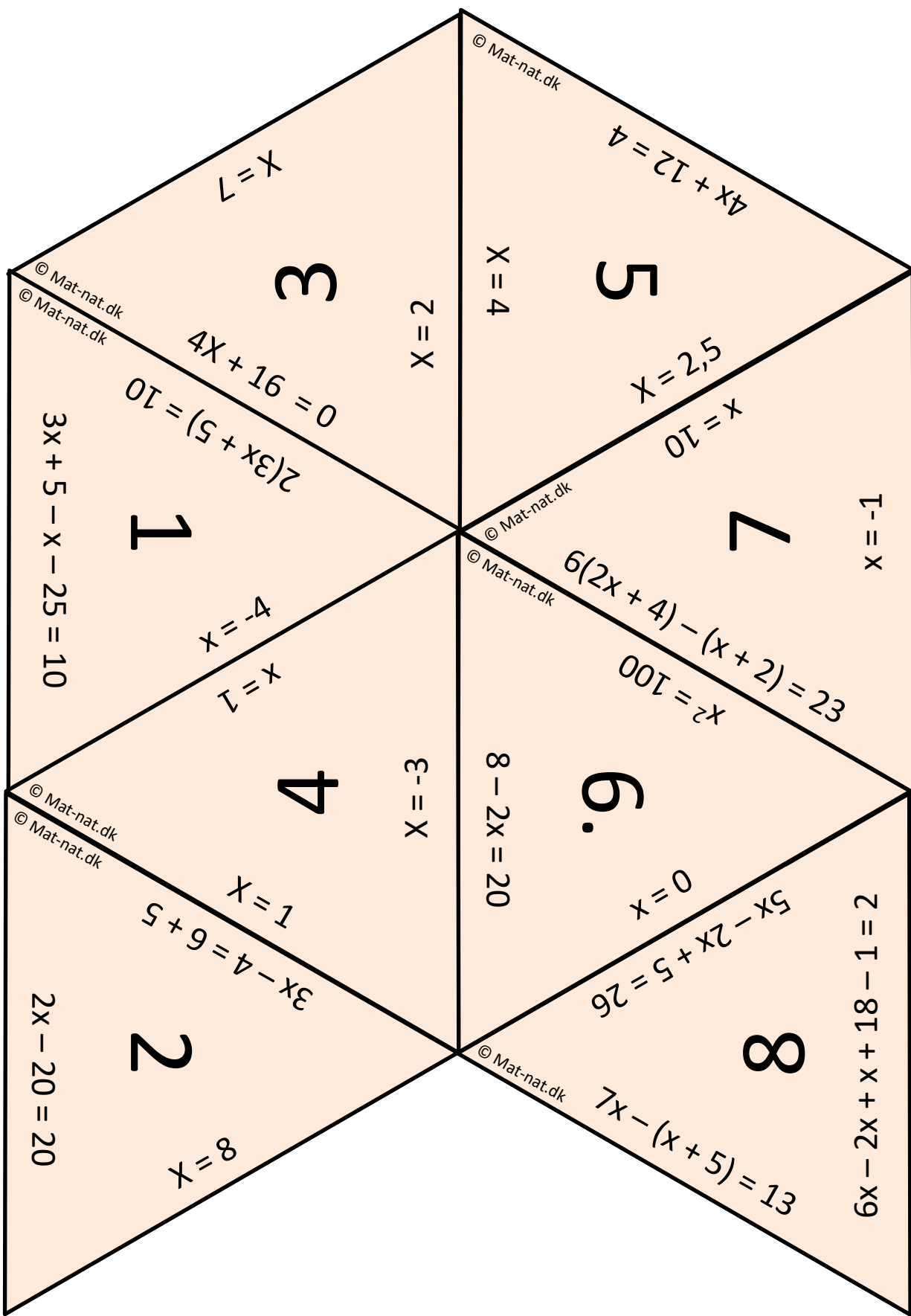
© Mat-nat.dk



**NIVEAU 1**







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$$3x + 5 - x - 25 = 10$$

1

$$2(3x + 5) = 10$$

$$4x + 16 = 0$$

3

$$x = 7$$

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$$2x - 20 = 20$$

2

$$3x - 4 = 6 + 5$$

$$x = 1$$

4

$$x = 1$$

$$4 = x$$

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$$x = 4$$

5

$$4x + 12 = 4$$

$$x = 2,5$$

$$x = 10$$

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$$8 - 2x = 20$$

6

$$6(2x + 4) - (x + 2) = 23$$

$$x^2 = 100$$

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$$8 - 2x = 20$$

$$0 = x$$

$$5x - 2x + 5 = 26$$

8

$$7x - (x + 5) = 13$$

$$2 = 1 - 81 + x + x^2 - x^9$$

$$1 = x$$

$x = -5$

9.

$x^2 = 81$

$x = 3$

$x = -2$

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$x + x = 24$

10

$x = -8$

$4x + 7 = 3$

$x = 5$

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$3x + 2x - 4 = 16$

11

$4 = x$

$4(x + 3) + 2x - 4 = 20$

$x = 6$

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$7x - 30 = 26$

12

$x = -11$

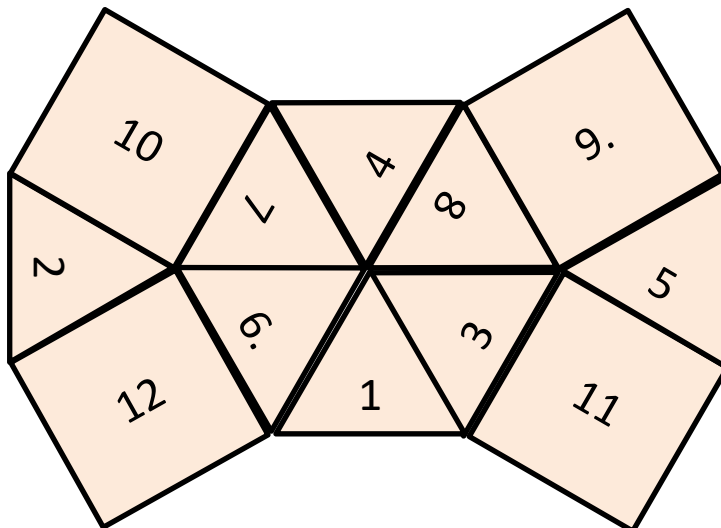
$9 = x$

$x + 4 = 15$

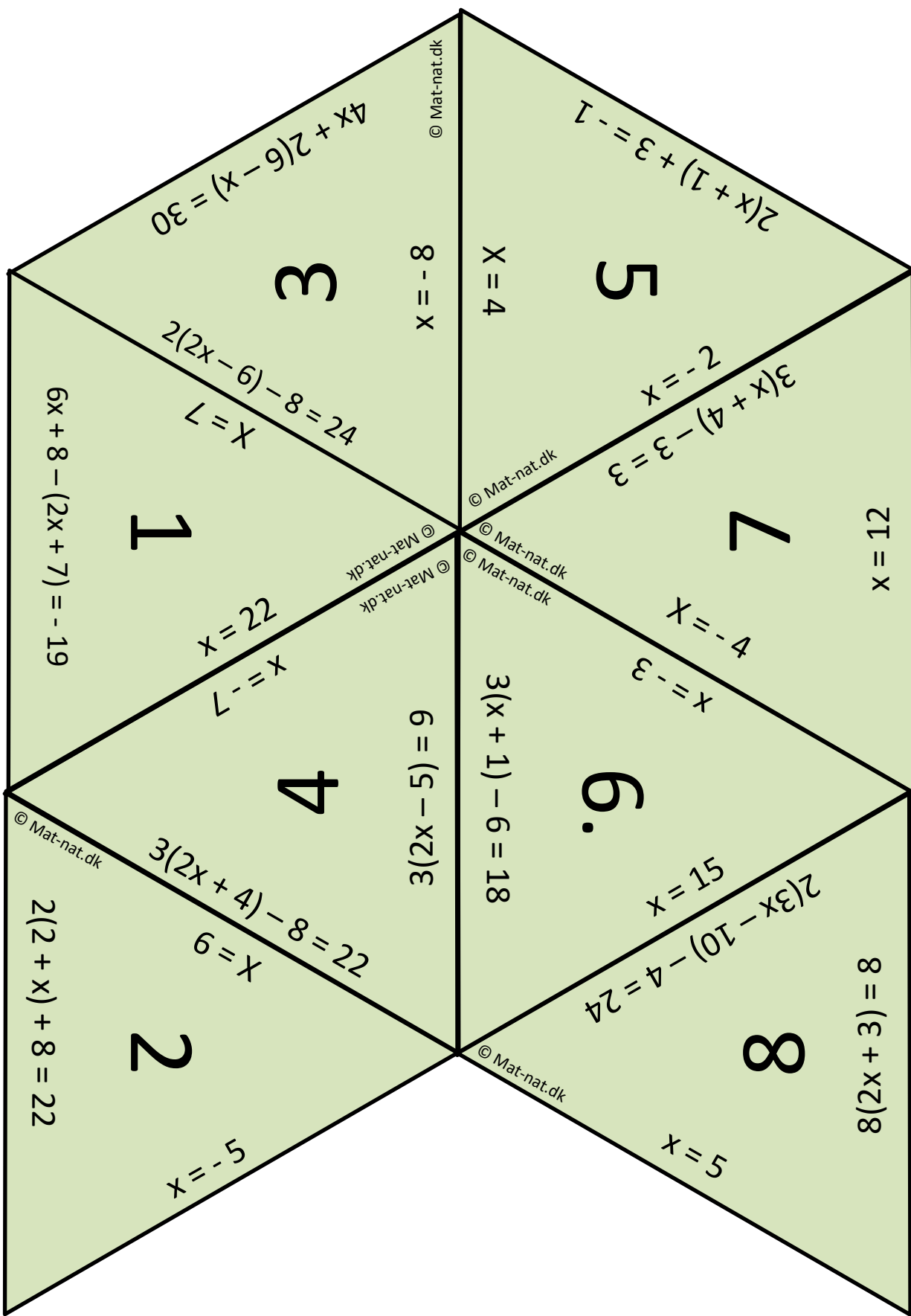
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## NIVEAU 2



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$$6x + 8 - (2x + 7) = -19$$

1

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$$2(2 + x) + 8 = 22$$

2

$$4x + 2(6 - x) = 30$$

3

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$$2(2x - 6) - 8 = 24$$

$$x = 7$$

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$$x = -1$$

4

$$6 = (5 - x) \cdot 2$$

$$x = 4$$

5

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$$3(x + 1) - 6 = 18$$

6

$$2(x + 1) + 3 = -1$$

7

$$3(x + 4) - 3 = 3$$

$$x = -4$$

$$2x = x$$

$$x = -3$$

$$8(2x + 3) = 8$$

8

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$$2(3x - 10) - 4 = 24$$

$$5x = 15$$

$$x = 5$$

$$1 = x$$

10

$$x = 0$$

$$3(2 - 2x) - 15 = 39$$

$$x = 14$$

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$$2 = x$$

6

$$4(x - 12) - x - 24 = 3$$

$$4x - 2(x + 4) + 6 = 18$$

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$$2(x - 8) - 4 = 4$$

$$1 = x$$

12

$$4(3x + 4 - x) - 2(3x) = 16$$

$$4(x - 3) - 5 = 7$$

$$3(2x - 6) - 2(8 - 2x) = -2$$

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$$4 = x$$

11

$$x = 25$$

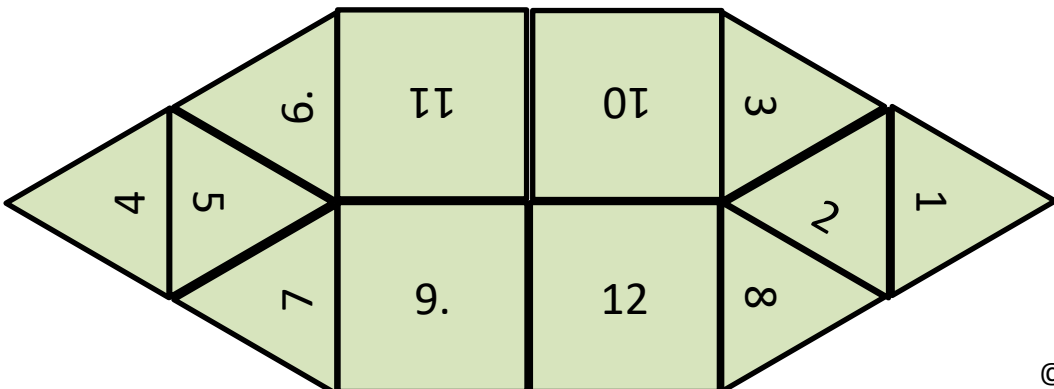
© Mat-nat.dk

$$8(x + 2) - 7 = 17$$

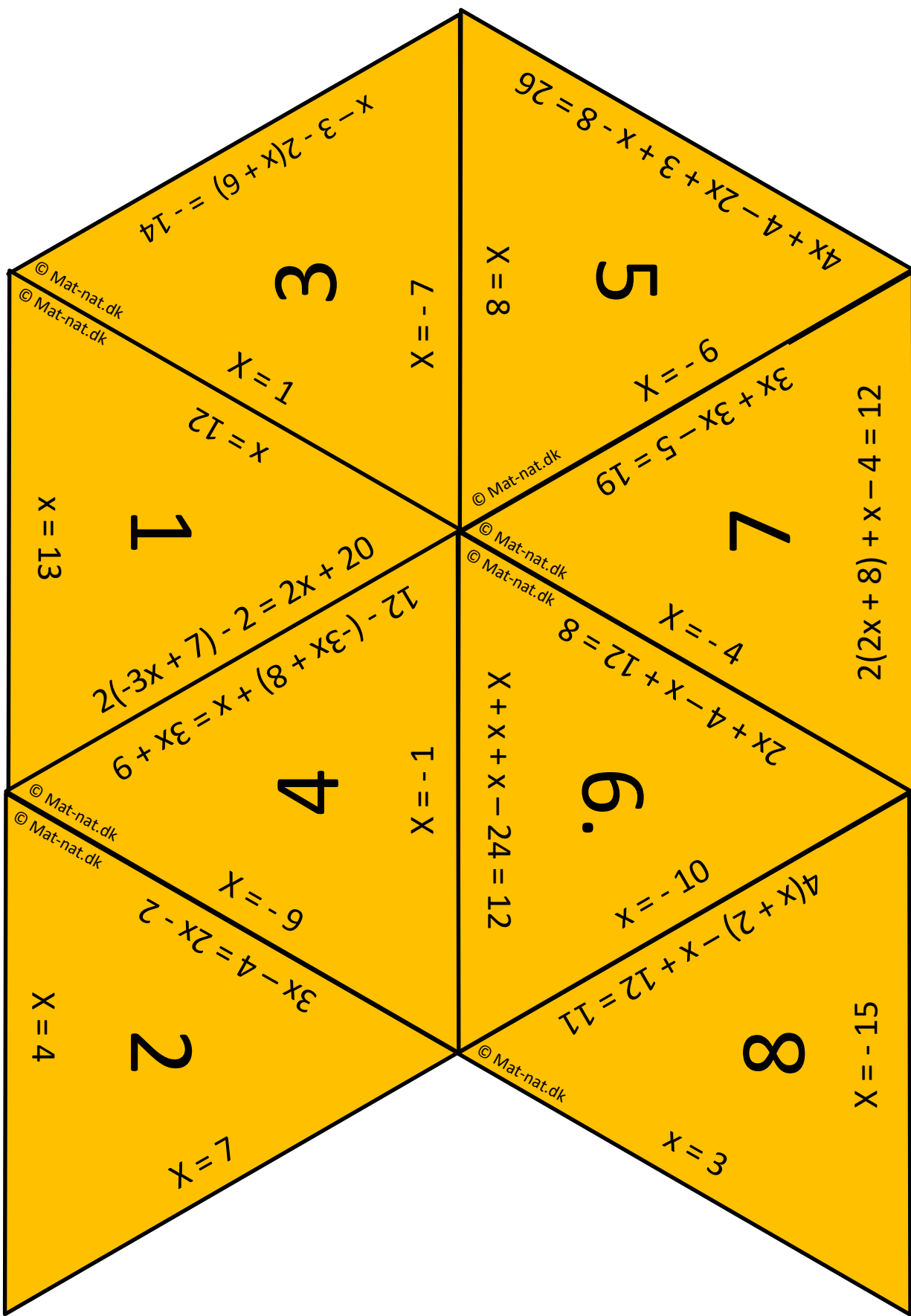
$$x = 13$$



## NIVEAU 2



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$x = 13$

1

$12 - (-3x + 8) + x = 3x + 9$   
 $02 + x2 = 2 - (7 + x3) - 2$

2

$x = 4$

$L = x$

$3x - 4 = 2x - 2$   
 $6 - x = x$

$L = x$

4

$x + x + x - 24 = 12$

6

$2x + 4 - x + 12 = 8$   
 $4 - x = x$

$x = 15$

8

$x = 3$

$4(x + 2) - x + 12 = 11$   
 $01 - x = x$

$2(2x + 8) + x = 12$

7

$3x + 3x - 5 = 19$   
 $9 - x = x$

$x = 8$

5

$4x + 4 - 2x + 3 + x - 8 = 26$

$L = x$

3

$x = 12$   
 $x = x$

$x - 3 - 2(x + 6) = -14$

$$0 = x$$

9.

$$4 = (2 + 2x) - x^4$$

$$x = -2$$

$$2x + 3 + 5 + x - 12 = 14$$

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$$2(x - 5) = 20$$

10

$$2x + 2 - x - 4 + 2x - 12 = 10$$

$$x + 10 = 1$$

$$x = 2$$

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$$3x - 2x + x + 8 = 22$$

11

$$3 = 9 - x - 4 + x^2 - 6 = 3$$

$$x = -3$$

$$x = 10$$

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$$5x + 2 - 3x + 4 = 28$$

12

$$32 + x + 4 + 2x = 6$$

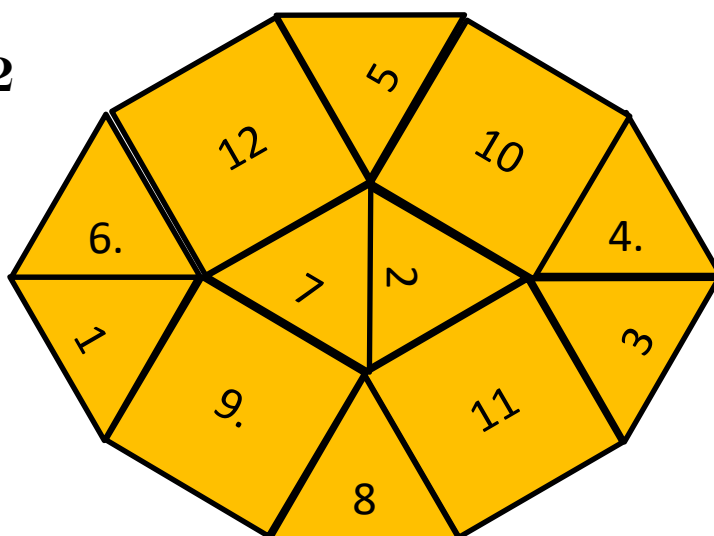
$$6 = x$$

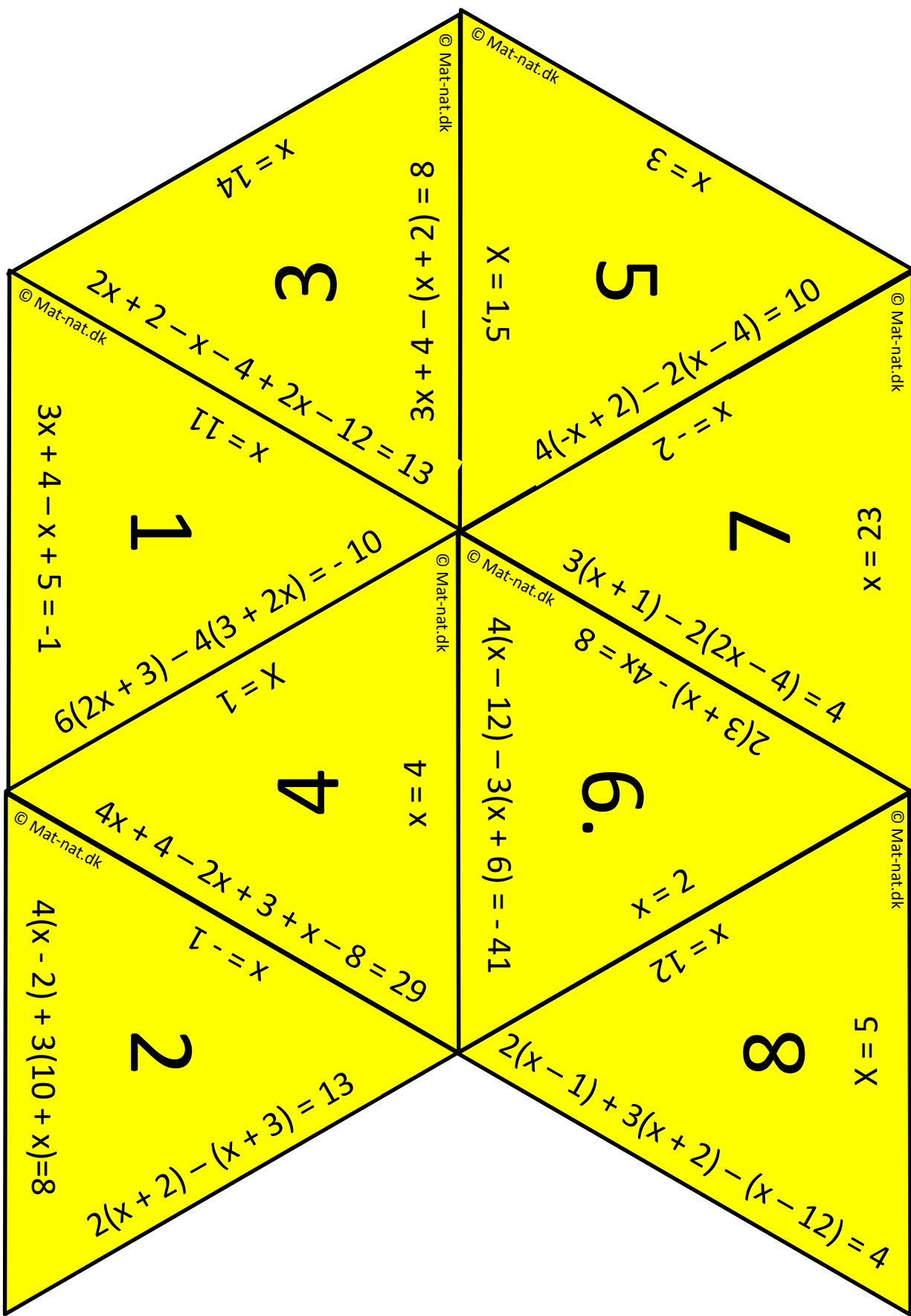
$$4x + 2x + 12 = -12$$

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## NIVEAU 2





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3  
 $2x + 2 - x - 4 + 2x - 12 = 14$   
 $x = 14$

$8 = (2 + x) - 7 + x$   
 $3x = 3$   
 $x = 1$

$x = 1,5$

5  
 $4(-x + 2) - 2(x - 4) = 10$   
 $x = -2$

$x = 3$

$3x + 4 - x + 5 = -1$

1

$6(2x + 3) - 4(3 + 2x) = -10$   
 $x = 1$

$7 = x$

$4(x - 12) - 3(x + 6) = -41$

6

$3(x + 1) - 2(2x - 4) = 4$   
 $8 = 8$

$2x = x$

$x = 2$

$4(x - 2) + 3(10 + x) = 8$

2

$2(x + 2) - (x + 3) = 13$   
 $x = -1$

$2(x - 1) + 3(x + 2) - (x - 12) = 4$

8

$5 = x$

7

$2x = x$

$$3T = X$$

10

$$5x + 2 - 3x + 4 = 28$$

$$2(x + 2) = 7$$

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$$6 - x = 9$$

$$3(2x - 5) - (5 - x) = -1$$

9.

$$3(x + 6) - 4(2 - x) = 10$$

$$x = -25$$

$$3(x - 5) + 2 - 2(x - 3) = 1$$

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$$9 - x$$

12

$$6x + 3(5 - 4x) - 2(2 - 2x) - 12 = 13$$

$$x = 10$$

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$$x = -4$$

$$5(2x - 3) + (3 - x) + 2(7 - 2) = 11$$

11

$$x = 8$$

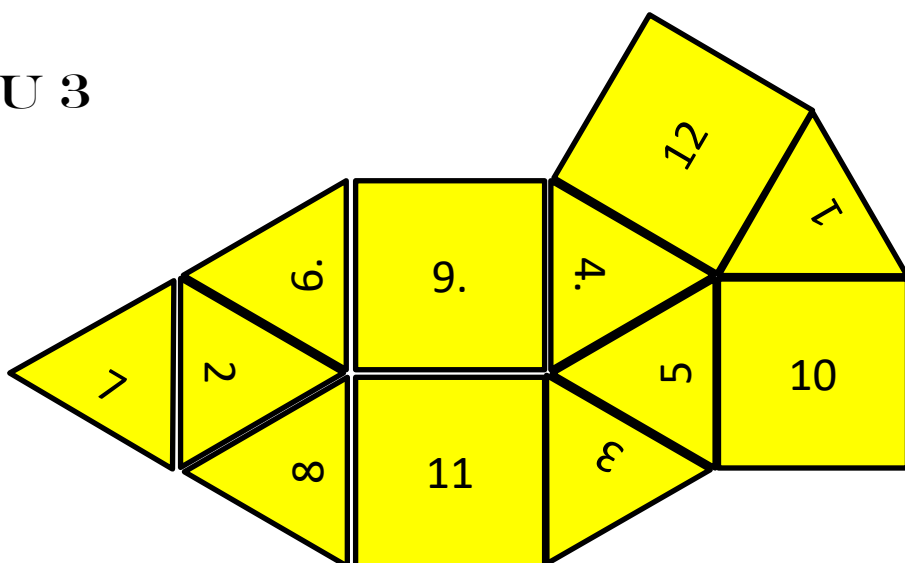
$$2(3x - 4) - 12 = 10$$

$$4(2x - 5) - 6x + 12 = 4$$

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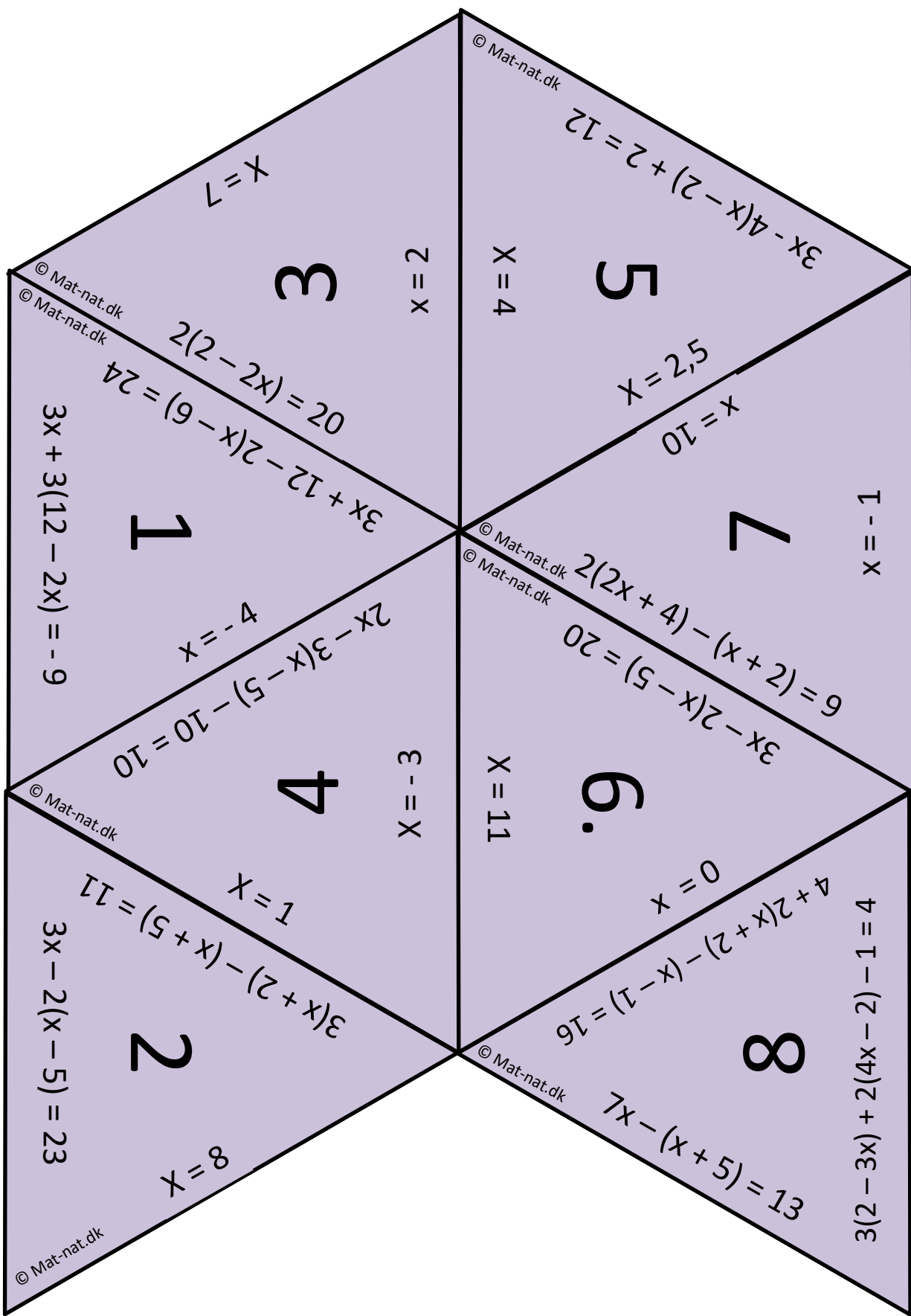


### NIVEAU 3



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1

$$3x + 3(12 - 2x) = -9$$

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2

$$3x - 2(x - 5) = 23$$

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3

$$2(2 - 2) - 2(x - 6) = 24$$
$$3x + 12 - 2(x - 6) = 24$$

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4

$$2x - 3(x - 5) - 10 = 10$$
$$4 - x = x$$

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$$x = 7$$

$$2 = x$$

$$3 - x = x$$

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6

$$2(2x + 4) - (x + 2) = 20$$
$$3x - 2(x - 5) = 20$$

$$x = 11$$

$$x = 4$$

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$$3x - 4(x - 2) + 2 = 12$$

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8

$$7x - (x + 5) = 13$$
$$4 + 2(x + 2) - (x - 1) = 16$$
$$3(2 - 3x) + 2(4x - 2) - 1 = 4$$

$$5 \cdot 2 = x$$
$$x = 10$$

$$1 - x = x$$

$$7$$

$$8$$

$$1 - x = x$$

$x = -6$

**9.**

$x = 3$

$x = -2$

$x = 14$

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$4(2-x) + 4(4x-20) - 36 = 36$

**10**

$x = -8$

$x = 5$

$4(x+3) - (2-x) + 5 = 10$

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$3x - 4(x-5) + 2(x-1) = 22$

**11**

$4(x+3) + 2x - 4 = 20$

$x = 6$

$x = 7$

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$2(x-5) + (5-x) = 3$

**12**

$x = -11$

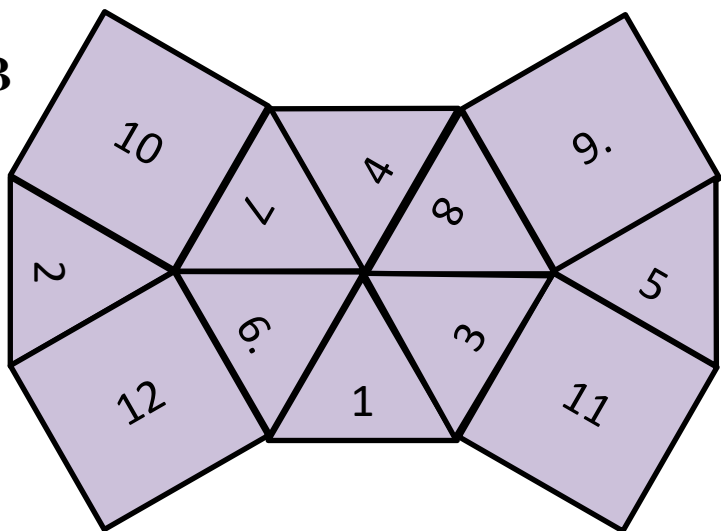
$8x + 2(x+1) - 4(2x-4) - 24 = 12$

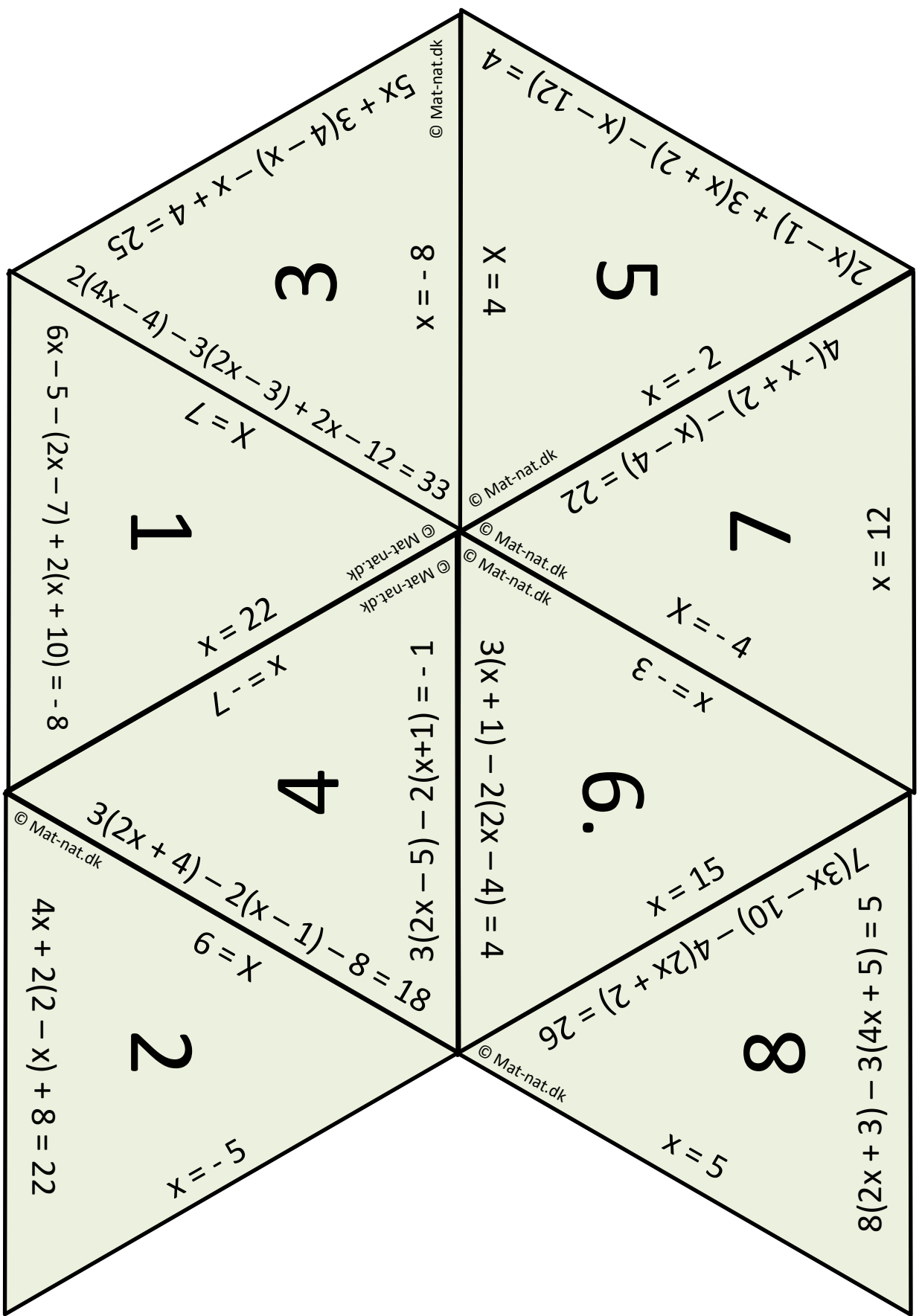
$2x + 3 = 25$

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**NIVEAU 3**





6x - 5 - (2x - 7) + 2(x + 10) = -8

1

x = -7  
22 = x

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3

2(4x - 4) - 3(2x - 3) + 2x - 12 = 33  
5x + 3(4 - x) - x + 4 = 25

8 - = x

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3(x + 1) - 2(2x - 4) = 4

6.

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2(x - 1) + 3(x + 2) - (x - 12) = 4  
X = 4

5

4(-x + 2) - (x - 4) = 22  
2 - = x

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7

7 = x

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x = -4  
3 = -

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5 = (5 + x)3 - (3 + x)2  
8(2 + 3)8

8

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7(3x - 10) - 4(2x + 2) = 26  
5 = x

x = 5

4x + 2(2 - x) + 8 = 22

2

5 = x

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3(2x + 4) - 2(x - 1) - 8 = 18  
6 = x  
81 = 8 = 18  
3(2x)3

4

$$1 = x$$

10

$$x = 0$$

$$3(2x - 4) - 4(x - 12) = 20$$

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$$x = 14$$

$$1 = x$$

12

$$4(3x + 4 - x) + 2(3x - 4) = 8$$

$$5(2x - 6) + 2(8 - 4x) = -10$$

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$$4(8x - 3) - 5(4x + 2) = 50$$

$$2 = x$$

6

$$4(x - 12) - 3(x + 6) = -41$$

$$2(4x + 4) - 2(x - 4) = 88$$

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$$9 = 9 + (x+4) - 2 - 12 - 4x = 6$$

$$7 = x$$

11

$$x = 25$$

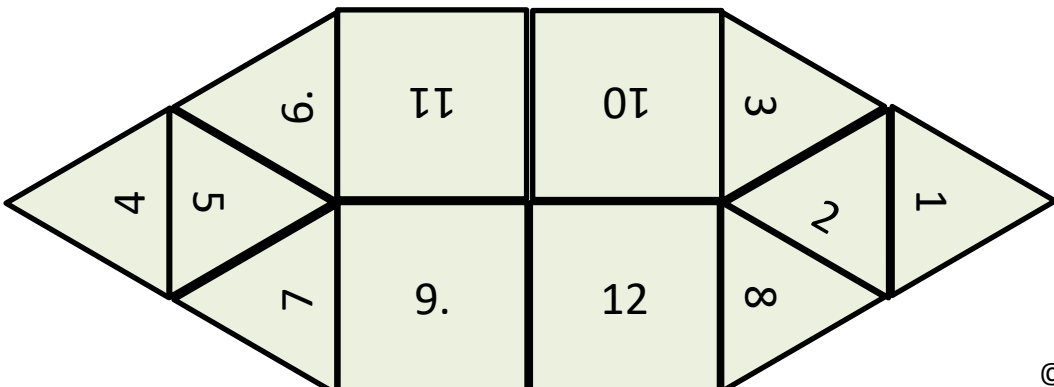
© Mat-nat.dk

$$8(x + 5) - 2(2x + 8) = 28$$

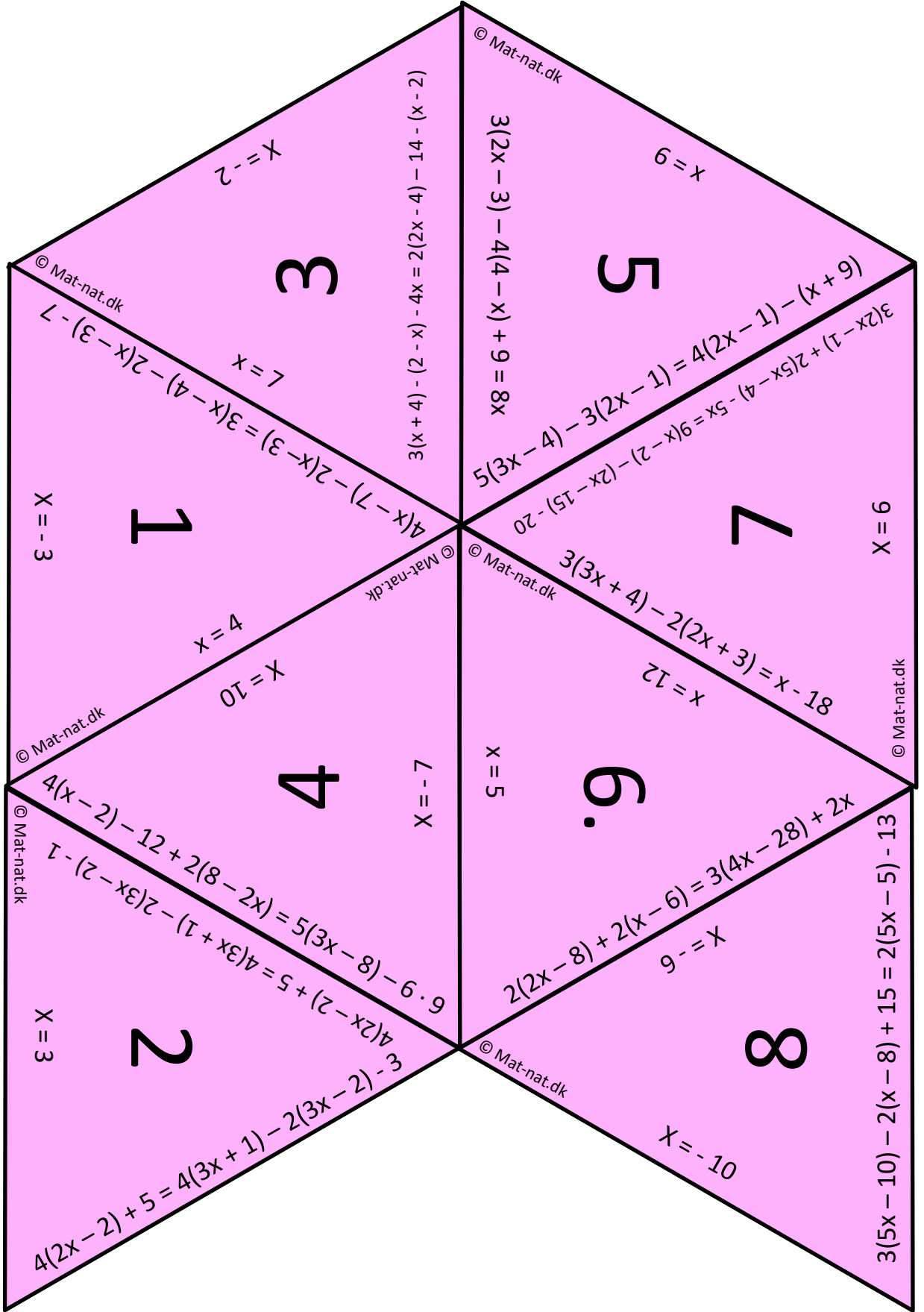
$$2(4x + 3 - 2x + 1 - x) - 4(x - 12) = 30$$



## NIVEAU 3



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$$3(2x-1) + 2(5x-4) - 5x = 9(x-2) - (2x-15) - 20$$

$$x = -3$$

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$$4(x-2) - 12 + 2(8-x) = 5(3x+1) - 2(3x-2) - 1$$

$$x = 3$$

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$$4(2x-2) + 5 = 4(3x+1) - 2(3x-2) - 1$$

$$x = 3$$

$$4(2x-2) + 5 = 4(3x+1) - 2(3x-2) - 1$$

$$x = 3$$

1

$$4 = x$$

$$x = 10$$

2

$$x = -2$$

3

$$x = x$$

$$3(x+4) - (2-x) - 4x = 2(2x-4) - 14 - (x-2)$$

4

$$x = -7$$

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$$4(x-7) - 2(x-3) = 3(x-4) - 2(x-3) - 7$$

$$x = -7$$

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$$3(2x-3) - 4(4-x) + 9 = 8x$$

$$x = 5$$

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$$2(2x-2) + (8-x) = 3(4x-6) - (9-x) + 2(8-x) + 2x$$

$$x = -6$$

$$3(5x-10) - 2(x-8) + 15 = 2(5x-5) - 13$$

$$x = -10$$

6

$$x = 12$$

$$3(3x+4) - 2(2x+3) = x - 18$$

8

$$x = -10$$

7

$$9 = x$$

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$$3(2x-1) + 2(5x-4) - 5x = 9(x-2) - (2x-15) - 20$$

$$x = -6$$

$$3(5x-10) - 2(x-8) + 15 = 2(5x-5) - 13$$

$$x = -10$$

$$x = -10$$

$$x = -10$$

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$$3(2x-3) - 4(4-x) + 9 = 8x$$

$$6 = x$$

$$3(2x-3) - 4(4-x) + 9 = 8x$$

$$3(2x-3) - 4(4-x) + 9 = 8x$$

$$3(2x-3) - 4(4-x) + 9 = 8x$$

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$$8 = X$$

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# 10

$$5 = x$$

$$4(2x - 5) - 2(3x - 6) = 3(x - 4) + 2x$$

$$4(3x + 4) - 2(8x - 4) = 5(8x + 4) + 2(7x + 2)$$

$$8(2x + 8) = (x - 7 + x^2) - (1 + x^2)$$

$$x = -20$$

# 9.

$$x = 5$$

$$5(2x - 3) - 2(4x - 4) + 8 = 2x - 1 - 2x - 12$$

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$$6(2x - 10) - 8 + 6x = 4x + 3(x + 4) + 41$$

# 12

$$4(2x + 3) - 2(x + 4) = 5(-x + 3) - 22$$

$$4(3x - 12) + x - 4 = 6(x - 3) + 1$$

$$x = -8$$

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$$3(2x - 4) + 2(x + 4) = (5 - x) + (4 + 2 - 3(x + 3))$$

# 11

$$x = 2$$

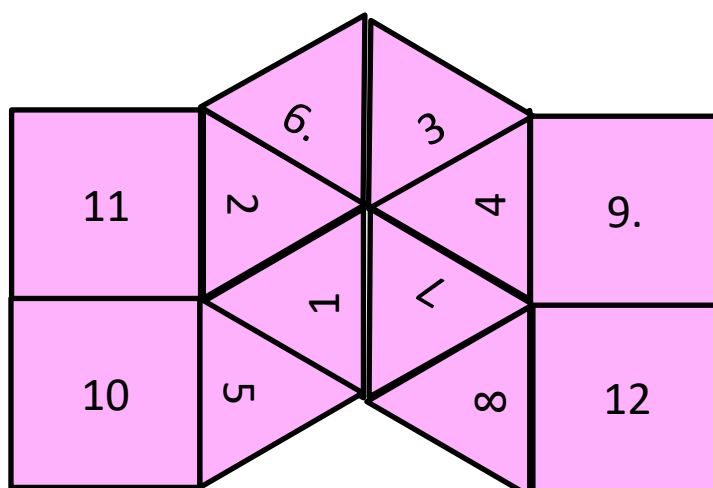
$$6(x - 8) - 3(2x - 4) - 12 = 48 - (4x + 8)$$

$$x = -4$$

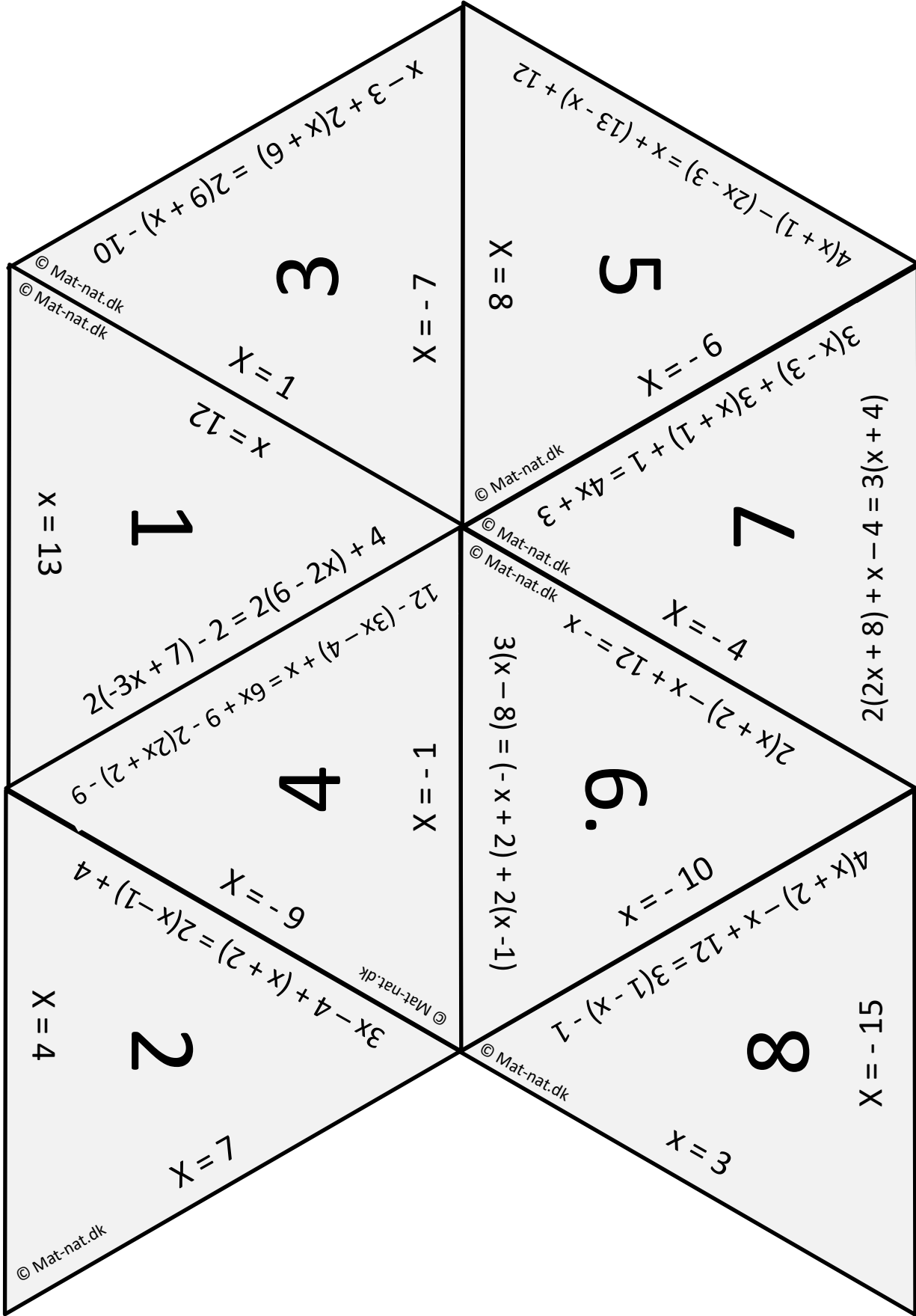
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## NIVEAU 4



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$x = 13$

**1**

$x = 12$   
 $1 = x$

$4 + (x^2 - 9)2 = 2 - (7 + x^2) - 2$   
 $12 - (3x - 4) + x = 6x + 9 - 2(2x + 2) - 9$

**4**

$1 = x$

$x = 4$

**2**

$1 = x$

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$x - 3 + 2(x + 6) = 2(9 + x) - 10$

**3**

$1 = x$

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$x = 8$

**5**

$9 = x$

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$3(x - 8) = (-x + 2) + 2(x - 1)$

**6**

$10 = x$

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$x = 3$

**8**

$x = 15$

$4(x + 1) - (2x - 3) = x + (13 - x) + 12$

$3(x - 3) + 3(x + 1) + 1 = 4x + 3$

**7**

$4 = x$

$2(2x + 8) + x = 3(x + 4)$

$4(x + 2) - x + 12 = 3(1 - x) - 1$

$$x = 0$$

9.

$$3(2x - 4) + 2(x - 5) = 4(x + 2) - 3(x + 3)$$

$$6 \cdot 9 - 12 + 2(8 - 2x) = 5(3x - 8) - 6 \cdot 9$$

$$x = -2$$

$$1/2(2x + 4) + (5 - x) = (20 - x) + 2$$

10

$$3(2x - 3) - 4(4 - x) + 9 = 8x$$

$$x = 2$$

$$3(10 - (x^2 + 1)) - 1 = (x^2 - 8) - 2(x^2 - (x^2 - 1)) - 13$$

$$x = 11$$

12

$$-2(4 - x) + 2(12 + x) = 2(2 - 2x) - 3(1 - 2x) - 5$$

$$3(x + 6) + 2(3 + 2x) = x$$

$$6 = x$$

$$2(2x - 8) + 2(x - 6) = 3(4x - 28) + 2x$$

11

$$8(2x + 1) - (1 + x^2) = (x - 4 + x^2) + 13$$

$$x = 10$$

$$x = -3$$



### NIVEAU 4

