

Sample Worksheets - Math Crossword – Medium (L3)

$$\int_0^n f(x) \cdot dx$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

	+		=	
--	---	--	---	--

MATH

$$\sum_{i=0} x_i$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

20 = (1, 6, 10, 25, 19, ..., n)

π

1, 4, 2, 8, 16, ..., 24,

3, 9, 15, ..., 927,

19, 26, 10, 4, 35, ...)

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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Scan a puzzle's QR code, or enter its code at www.archeranthem.com/check, to solve it online and check your answers.

How to Solve

Each puzzle is a grid of math equations that read across and down and cross at shared numbers.

1. Find the shaded empty cells — these are the blanks to fill in.
2. Use the numbered “Fill the blanks using” list beside each puzzle.
3. Place each value so that every across and down equation is true.
4. Use the work area to figure out your answers.

Check your work with the answer key at the back, or scan the puzzle’s QR code to solve it online.

	+		=	
--	---	--	---	--

Puzzle 1

$\frac{3}{4}$				
-				×
	÷	$\frac{3}{4}$	=	$\frac{2}{3}$
=		.		=
$\frac{1}{4}$		$\frac{1}{2}$		
		=		



Fill the blanks using:

1. 4 2. $\frac{1}{4}$ 3. $\frac{1}{2}$ 4. 6

Puzzle 2

$\frac{1}{4}$					
+					
$\frac{1}{2}$	÷	$\frac{1}{4}$	=	2	
=		×			
			×		= 6
		=			



Fill the blanks using:

1. 3 2. $\frac{1}{2}$ 3. 2 4. $\frac{3}{4}$

Puzzle 3

	+		=			
×			÷			
8			2			
=			=			
2		$\frac{1}{2}$	÷	$\frac{1}{4}$	=	



Fill the blanks using:

1. $\frac{1}{4}$ 2. $\frac{1}{4}$ 3. 2 4. $\frac{1}{2}$

Puzzle 4

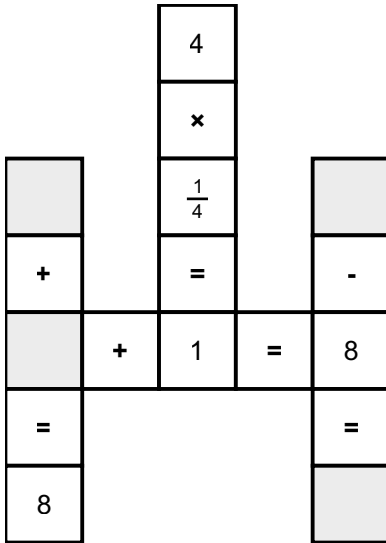
		+	7	=	
		-			-
8	×		=	6	
		=			=
		$\frac{1}{4}$			5



Fill the blanks using:

1. 1 2. $\frac{3}{4}$ 3. 3 4. 8

Puzzle 5

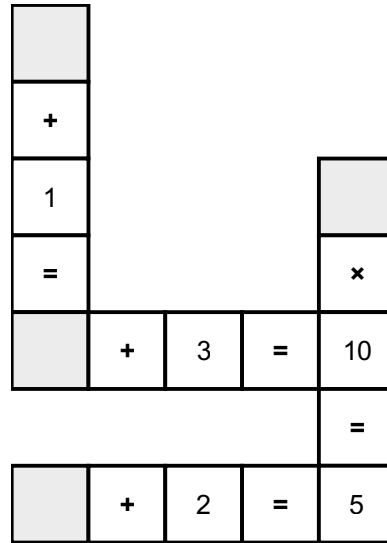


Fill the blanks using:

1. 1 2. 2 3. 7 4. 10

46DEB5C0

Puzzle 6

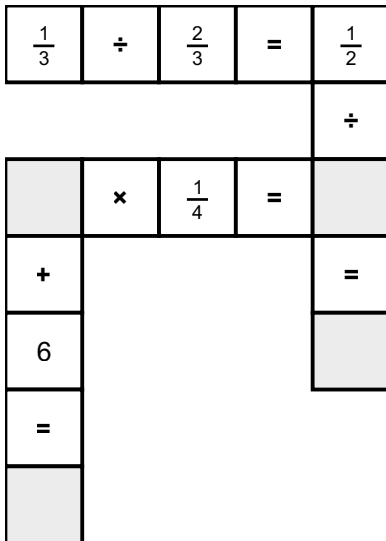


Fill the blanks using:

1. 7 2. 3 3. $\frac{1}{2}$ 4. 6

4127007E

Puzzle 7

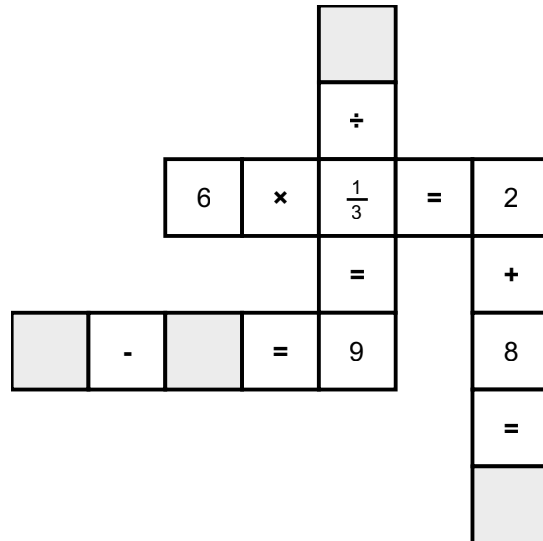


Fill the blanks using:

1. 3 2. $\frac{3}{4}$ 3. 9 4. $\frac{2}{3}$

66235BD4

Puzzle 8



Fill the blanks using:

1. 10 2. 3 3. 1 4. 10

4DB43ED1

Puzzle 9

	+		=	2
				÷
		1		
		.		=
$\frac{3}{4}$	×	$\frac{1}{3}$	=	$\frac{1}{4}$
		=		



D3C49F94

Fill the blanks using:

1. $\frac{2}{3}$ 2. 8 3. 1 4. 1

Puzzle 10

	÷	2	=	5
×				
	.	$\frac{1}{4}$	=	
=		÷		
		$\frac{3}{4}$		
		=		
		$\frac{1}{3}$		



F8BA4AFB

Fill the blanks using:

1. $\frac{1}{4}$ 2. 5 3. 10 4. $\frac{1}{2}$

Puzzle 11

	÷		=	$\frac{1}{2}$
		.		÷
	8	+	2	= 10
=				=
				$\frac{1}{2}$



36F03710

Fill the blanks using:

1. 5 2. 5 3. 10 4. 2

Puzzle 12

	+		=	7
+				
2				
=				×
	×	2	=	10
				=
				5



8B302E6D

Fill the blanks using:

1. $\frac{1}{2}$ 2. 5 3. 3 4. 4

Puzzle 17

		×		=	
			×		
8	+	1	=	9	
			=		
	÷	6	=	$\frac{1}{3}$	



Fill the blanks using:

1. 9 2. 6 3. 2 4. $\frac{2}{3}$

77199D89

Puzzle 18

4			
×		+	+
$\frac{1}{4}$		$\frac{1}{4}$	
=		=	=
1	-		= $\frac{1}{2}$



Fill the blanks using:

1. $\frac{1}{4}$ 2. $\frac{1}{4}$ 3. $\frac{1}{4}$ 4. $\frac{1}{2}$

7C540BDC

Puzzle 19

$\frac{1}{3}$		$\frac{2}{3}$	
+		-	
$\frac{1}{3}$			
=		=	-
$\frac{2}{3}$	÷		= 2
			=



Fill the blanks using:

1. $\frac{1}{3}$ 2. 10 3. 8 4. $\frac{1}{3}$

93DB7937

Puzzle 20

		÷	
		8	
+		=	
	-		= $\frac{1}{4}$
=			
$\frac{3}{4}$	-	$\frac{1}{2}$	= $\frac{1}{4}$



Fill the blanks using:

1. 2 2. $\frac{1}{4}$ 3. $\frac{1}{2}$ 4. $\frac{1}{4}$

6A87C164

Puzzle 21

	+	$\frac{1}{2}$	=	$\frac{3}{4}$
		×		
5	÷		=	10
		=		
	÷		=	2



Fill the blanks using:

1. $\frac{1}{2}$ 2. $\frac{1}{4}$ 3. 5 4. 10

418F8067

Puzzle 22

				8
÷			-	
8		$\frac{1}{2}$		5
=		.		=
	÷		=	3
		=		



Fill the blanks using:

1. $\frac{1}{4}$ 2. $\frac{3}{4}$ 3. 6 4. $\frac{1}{4}$

5B2CA33E

Puzzle 23

				2
			÷	
	-	$\frac{1}{4}$	=	$\frac{1}{4}$
		×		=
				8
		=		
1	-		=	



Fill the blanks using:

1. $\frac{1}{2}$ 2. $\frac{1}{2}$ 3. $\frac{1}{2}$ 4. 2

ED766D24

Puzzle 24

$\frac{3}{4}$	-	$\frac{1}{4}$	=	
÷				
3	×	$\frac{2}{3}$	=	2
=				
	×		=	



Fill the blanks using:

1. 3 2. $\frac{1}{4}$ 3. $\frac{3}{4}$ 4. $\frac{1}{2}$

CECB3B75

Σ

1, 1, 2, 3, 5 ...

$$e^{i\pi} + 1 = 0$$

 π

	+		=	
--	---	--	---	--

 Σ

Answers

$$a^2 + b^2 = c^2$$

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 $\sqrt{\infty}$ \int

1

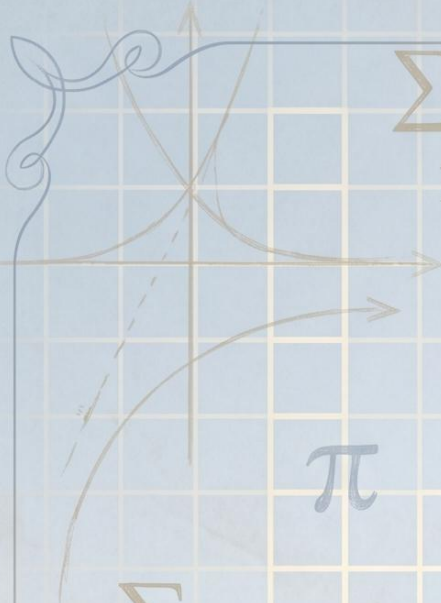
 $\sqrt{\quad}$

$$a^2 + b^2 = c^2$$

 ∞ \int ∞

$$e^{i\pi} + 1 = 0$$

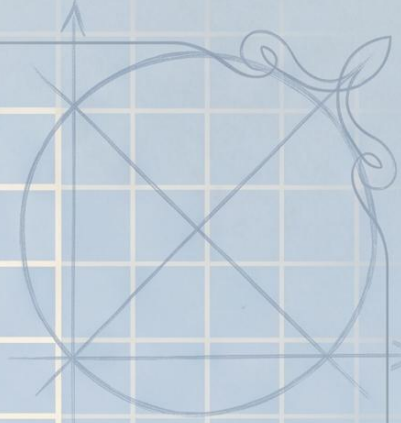
 π



Σ

1, 1, 2, 3, 5 ...

$$e^{i\pi} + 1 = 0$$



π

Σ

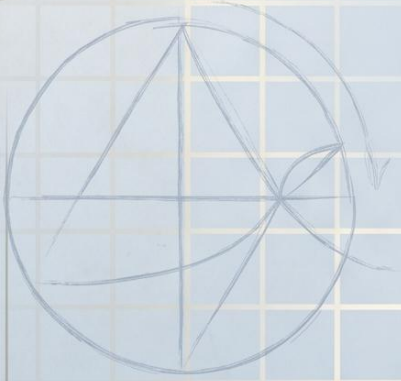
$$a^2 + b^2 = c^2$$

$\sqrt{8}$



$\sqrt{\quad}$

1



$\sqrt{\quad}$

$$a^2 + b^2 = c^2$$

∞

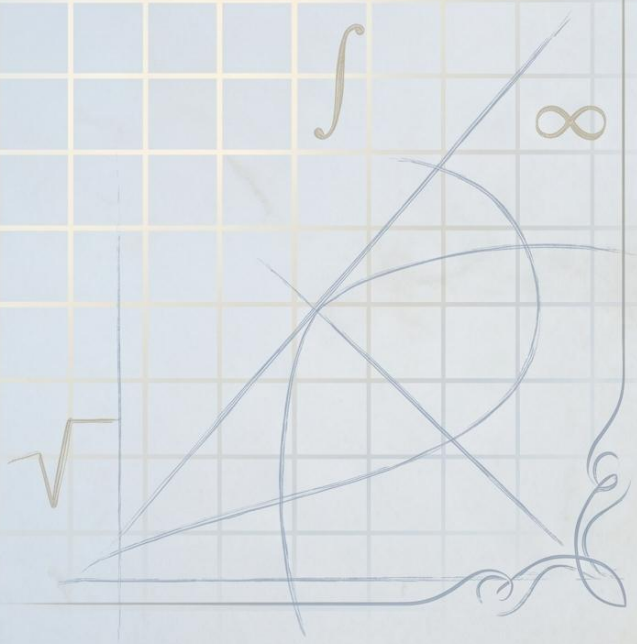
\int

∞



$$e^{i\pi} + 1 = 0$$

π



$\sqrt{\quad}$



Answer Key

Puzzle 1

$\frac{3}{4}$				6
-				×
$\frac{1}{2}$	÷	$\frac{3}{4}$	=	$\frac{2}{3}$
=		-		=
$\frac{1}{4}$		$\frac{1}{2}$		4
		=		
		$\frac{1}{4}$		

Puzzle 2

$\frac{1}{4}$					
+					
$\frac{1}{2}$	÷	$\frac{1}{4}$	=	2	
=		×			
$\frac{3}{4}$		2	×	3	= 6
		=			
		$\frac{1}{2}$			

Puzzle 3

$\frac{1}{4}$	+	$\frac{1}{4}$	=	$\frac{1}{2}$		
×				÷		
8				2		
=				=		
2		$\frac{1}{2}$	÷	$\frac{1}{4}$	=	2

Puzzle 4

		1	+	7	=	8		
		-				-		
8	×	$\frac{3}{4}$	=	6		3		
		=				=		
		$\frac{1}{4}$				5		

Puzzle 5

				4				
				×				
	1			$\frac{1}{4}$		10		
	+			=		-		
	7	+	1	=	8			
	=					=		
	8					2		

Puzzle 6

6								
+								
1						$\frac{1}{2}$		
=						×		
7	+	3	=	10				
						=		
3	+	2	=	5				

Puzzle 7

$\frac{1}{3}$	÷	$\frac{2}{3}$	=	$\frac{1}{2}$			
				÷			
3	×	$\frac{1}{4}$	=	$\frac{3}{4}$			
+				=			
6				$\frac{2}{3}$			
=							
9							

Puzzle 8

						3		
						÷		
	6	×	$\frac{1}{3}$	=	2			
				=		+		
10	-	1	=	9		8		
						=		
						10		

Puzzle 9

1	+	1	=	2			
				+			
						8	
				-		=	
$\frac{3}{4}$	×	$\frac{1}{3}$	=	$\frac{1}{4}$			
				=			
				$\frac{2}{3}$			

Puzzle 10

10	÷	2	=	5			
×							
$\frac{1}{2}$	-	$\frac{1}{4}$	=	$\frac{1}{4}$			
=		÷					
5		$\frac{3}{4}$					
		=					
		$\frac{1}{3}$					

Puzzle 11

5	÷	10	=	$\frac{1}{2}$		5		
				÷				
	8	+	2	=	10			
	=					=		
2						$\frac{1}{2}$		

Puzzle 12

3	+	4	=	7			
+							
2						$\frac{1}{2}$	
=						×	
5	×	2	=	10			
						=	
						5	

Answer Key (continued)

Puzzle 13

				9		
				-		
	8	+	2	=	10	
				=		-
3	+	4	=	7		3
				=		
						7

Puzzle 14

$\frac{1}{3}$	\times	9	=	3
\times				
6	-	4	=	2
=				
2	\times	5	=	10

Puzzle 15

				5		
				+		
4	-	1	=	3		
				=		\times
				6		3
				=		
10	-	1	=	9		

Puzzle 16

						$\frac{1}{2}$
						-
$\frac{1}{2}$	-	$\frac{1}{4}$	=	$\frac{1}{4}$		
+				=		
$\frac{1}{4}$		8	\times	$\frac{1}{4}$	=	2
=						
$\frac{3}{4}$						

Puzzle 17

9	\times	$\frac{2}{3}$	=	6
			\times	
8	+	1	=	9
			=	
2	\div	6	=	$\frac{1}{3}$

Puzzle 18

4		$\frac{1}{4}$		$\frac{1}{4}$
\times		+		+
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$
=		=		=
1	-	$\frac{1}{2}$	=	$\frac{1}{2}$

Puzzle 19

$\frac{1}{3}$		$\frac{2}{3}$			
+		-			
$\frac{1}{3}$		$\frac{1}{3}$		10	
=		=		-	
$\frac{2}{3}$	\div	$\frac{1}{3}$	=	2	
				=	
					8

Puzzle 20

				2	
				\div	
$\frac{1}{4}$				8	
+				=	
$\frac{1}{2}$	-	$\frac{1}{4}$	=	$\frac{1}{4}$	
=					
$\frac{3}{4}$	-	$\frac{1}{2}$	=	$\frac{1}{4}$	

Puzzle 21

	$\frac{1}{4}$	+	$\frac{1}{2}$	=	$\frac{3}{4}$
				\times	
5	\div	$\frac{1}{2}$	=	10	
				=	
	10	\div	5	=	2

Puzzle 22

6					8
\div					-
8		$\frac{1}{2}$			5
=		-			=
$\frac{3}{4}$	\div	$\frac{1}{4}$	=	3	
				=	
				$\frac{1}{4}$	

Puzzle 23

						2
						\div
$\frac{1}{2}$	-	$\frac{1}{4}$	=	$\frac{1}{4}$		
				\times		=
				2		8
				=		
1	-	$\frac{1}{2}$	=	$\frac{1}{2}$		

Puzzle 24

$\frac{3}{4}$	-	$\frac{1}{4}$	=	$\frac{1}{2}$
\div				$\frac{1}{4}$
3	\times	$\frac{2}{3}$	=	2
=				
$\frac{1}{4}$	\times	3	=	$\frac{3}{4}$