



FLO-TEK[®]
Flow Control Solutions

PVC Pressure Pipes & Fittings

(PVC 80/100) (800) 822-2222



PIPES

17. Kuvitus ja materiaali

17.1 PVC-aknapiirit

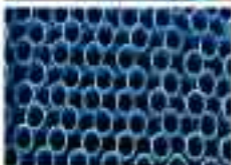
PVC on erittäin kestävä ja kestävä materiaali, jota käytetään usein ikkunoiden ja ovien valmistuksessa. PVC-aknapiirit ovat kestäviä ja kestäviä materiaaleja, jotka kestävät hyvin sään ja lämpötilan muutoksia.

Kuvitus ja materiaali on tärkeä osa ikkunan suunnittelua. PVC-aknapiirit ovat kestäviä ja kestäviä materiaaleja, jotka kestävät hyvin sään ja lämpötilan muutoksia. PVC-aknapiirit ovat kestäviä ja kestäviä materiaaleja, jotka kestävät hyvin sään ja lämpötilan muutoksia.

PVC-aknapiirit ovat kestäviä ja kestäviä materiaaleja, jotka kestävät hyvin sään ja lämpötilan muutoksia. PVC-aknapiirit ovat kestäviä ja kestäviä materiaaleja, jotka kestävät hyvin sään ja lämpötilan muutoksia.

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PVC-aknapiirit ovat kestäviä ja kestäviä materiaaleja, jotka kestävät hyvin sään ja lämpötilan muutoksia. PVC-aknapiirit ovat kestäviä ja kestäviä materiaaleja, jotka kestävät hyvin sään ja lämpötilan muutoksia.



17.2 Kuvitus

Kuvitus	Materiaali	Käyttö
PVC-aknapiirit	PVC	17

Kuvitus

- 17.1 PVC-aknapiirit**
 - 17.1.1 PVC-aknapiirit
 - 17.1.2 PVC-aknapiirit
 - 17.1.3 PVC-aknapiirit
 - 17.1.4 PVC-aknapiirit
 - 17.1.5 PVC-aknapiirit
- 17.2 Kuvitus**
 - 17.2.1 Kuvitus
 - 17.2.2 Kuvitus
 - 17.2.3 Kuvitus
 - 17.2.4 Kuvitus
 - 17.2.5 Kuvitus

Rig Dimensions

Dimensions for a 1000 lb capacity, 20' x 20' x 20' (6000 mm x 6000 mm x 6000 mm) rig. Dimensions are in feet and inches. Dimensions are for reference only. Actual dimensions may vary. For more information, contact the manufacturer.

RIG DIMENSIONS (FEET)											
DIMENSIONS FOR A 1000 LB CAPACITY, 20' X 20' X 20' (6000 MM X 6000 MM X 6000 MM) RIG											
RIG DIMENSIONS (METERS)											
DIMENSIONS FOR A 1000 LB CAPACITY, 20' X 20' X 20' (6000 MM X 6000 MM X 6000 MM) RIG											
1	20	0	0	0	0	0	0	0	0	0	0
2	19	6	0	0	0	0	0	0	0	0	0
3	19	0	6	0	0	0	0	0	0	0	0
4	18	0	0	6	0	0	0	0	0	0	0
5	17	0	0	0	6	0	0	0	0	0	0
6	16	0	0	0	0	6	0	0	0	0	0
7	15	0	0	0	0	0	6	0	0	0	0
8	14	0	0	0	0	0	0	6	0	0	0
9	13	0	0	0	0	0	0	0	6	0	0
10	12	0	0	0	0	0	0	0	0	6	0
11	11	0	0	0	0	0	0	0	0	0	6
12	10	0	0	0	0	0	0	0	0	0	0
13	9	0	0	0	0	0	0	0	0	0	0
14	8	0	0	0	0	0	0	0	0	0	0
15	7	0	0	0	0	0	0	0	0	0	0
16	6	0	0	0	0	0	0	0	0	0	0
17	5	0	0	0	0	0	0	0	0	0	0
18	4	0	0	0	0	0	0	0	0	0	0
19	3	0	0	0	0	0	0	0	0	0	0
20	2	0	0	0	0	0	0	0	0	0	0
21	1	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0



Risk Overview

It has been identified that the project team is not able to fully understand the risks and their impact on the project. The project team is not able to identify the risks and their impact on the project. The project team is not able to identify the risks and their impact on the project.

RISK REGISTER														
RISK REGISTER - RISK REGISTER - RISK REGISTER														
ID	DESCRIPTION	IMPACT	PROBABILITY	SEVERITY	STATUS	OWNER	START DATE	END DATE	MITIGATION STRATEGY	RESOURCES	STATUS	LAST UPDATE	APPROVED BY	
001	Low	1	10	10	10	10	10	10	10	10	10	10	10	10
002	Low	2	15	15	15	15	15	15	15	15	15	15	15	15
003	Low	3	20	20	20	20	20	20	20	20	20	20	20	20
004	Low	4	25	25	25	25	25	25	25	25	25	25	25	25
005	Low	5	30	30	30	30	30	30	30	30	30	30	30	30
006	Low	6	35	35	35	35	35	35	35	35	35	35	35	35
007	Low	7	40	40	40	40	40	40	40	40	40	40	40	40
008	Low	8	45	45	45	45	45	45	45	45	45	45	45	45
009	Low	9	50	50	50	50	50	50	50	50	50	50	50	50
010	Low	10	55	55	55	55	55	55	55	55	55	55	55	55
011	Low	11	60	60	60	60	60	60	60	60	60	60	60	60
012	Low	12	65	65	65	65	65	65	65	65	65	65	65	65
013	Low	13	70	70	70	70	70	70	70	70	70	70	70	70
014	Low	14	75	75	75	75	75	75	75	75	75	75	75	75
015	Low	15	80	80	80	80	80	80	80	80	80	80	80	80
016	Low	16	85	85	85	85	85	85	85	85	85	85	85	85
017	Low	17	90	90	90	90	90	90	90	90	90	90	90	90
018	Low	18	95	95	95	95	95	95	95	95	95	95	95	95
019	Low	19	100	100	100	100	100	100	100	100	100	100	100	100
020	Low	20	105	105	105	105	105	105	105	105	105	105	105	105

RISK REGISTER	
001	Low
002	Low
003	Low
004	Low
005	Low
006	Low
007	Low
008	Low
009	Low
010	Low
011	Low
012	Low
013	Low
014	Low
015	Low
016	Low
017	Low
018	Low
019	Low
020	Low

DESIGN CONSIDERATIONS

Consideration 1

Long-term Safety Factor

The design of a structure must consider the long-term safety factor. This is the ratio of the ultimate strength of the structure to the expected service load. The design must ensure that the structure will remain safe throughout its service life.

The design must also consider the effects of environmental factors such as corrosion, fatigue, and creep. These factors can reduce the strength of the structure over time, and the design must account for these effects to ensure long-term safety.



Consideration 2

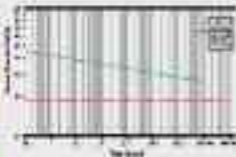
Short-term Safety Factor

The design must also consider the short-term safety factor. This is the ratio of the ultimate strength of the structure to the maximum expected load during the service life. The design must ensure that the structure will remain safe during the most demanding conditions of its service life.

Design Load & Factor Safety Requirements

Minimum Factor of Safety

The design must ensure that the structure meets the minimum factor of safety requirements. This is the ratio of the ultimate strength of the structure to the design load. The design must ensure that the structure will remain safe throughout its service life.



Factor of Safety at Beginning of Service Life

Factor of Safety at End of Service Life

Minimum Factor of Safety

Factor of Safety at Beginning of Service Life

Product Features and Key Benefits

The product is designed to provide a comprehensive solution for your business needs. It offers a range of features and benefits that are tailored to meet the specific requirements of your organization. The product is easy to use and integrate with your existing systems, ensuring a smooth transition and minimal disruption to your operations.

Key features include advanced reporting capabilities, real-time data monitoring, and robust security measures. The product also offers a user-friendly interface and comprehensive customer support, ensuring that you can maximize the value of your investment. The product is designed to be scalable, allowing you to grow your business without the need for additional hardware or software.

For more information, please contact our sales team at 1-800-555-1234. We are committed to providing you with the highest quality products and services. Our team of experts is available to assist you with any questions or concerns you may have. We look forward to helping you achieve your business goals.



Technical Specifications and Pricing

The product is available in three different models, each with its own set of features and pricing. The basic model is suitable for small businesses, while the advanced model is designed for larger enterprises. The product is compatible with a wide range of operating systems and hardware configurations, ensuring flexibility and ease of integration.

Model	Price
Basic	\$199
Standard	\$299
Advanced	\$499

Customer Support and Training

We offer a comprehensive customer support and training program to ensure that you can get the most out of our product. Our support team is available 24/7 to assist you with any issues or questions you may have. We also offer a range of training courses and resources to help you learn how to use the product effectively. Our goal is to provide you with the highest level of customer service and support.

Testimonials and Case Studies

Our customers have provided numerous testimonials and case studies that demonstrate the value and effectiveness of our product. These stories highlight the ways in which our product has helped businesses improve their operations, increase productivity, and reduce costs.

Customer	Industry
ABC Corp	Manufacturing
DEF Inc	Retail
GHI Ltd	Healthcare
JKL Co	Finance

FAQs and Contact Information

For more information, please contact our sales team at 1-800-555-1234. We are committed to providing you with the highest quality products and services. Our team of experts is available to assist you with any questions or concerns you may have. We look forward to helping you achieve your business goals.

Year	Revenue	Profit
2018	\$1.2M	\$0.3M
2019	\$1.5M	\$0.4M
2020	\$1.8M	\$0.5M
2021	\$2.1M	\$0.6M
2022	\$2.5M	\$0.7M

QUESTION

Question 10 (10 marks)

The following information relates to the operations of a company for the year ended 31 December 2021:

Revenue from sales of finished goods
Cost of sales
Selling expenses
Administrative expenses
Depreciation
Interest on bank borrowings

10,000,000
6,000,000
1,000,000
800,000
200,000
100,000

Required:

Calculate the gross profit and the operating profit.

Answer:

Gross profit = Revenue from sales of finished goods less cost of sales

Operating profit = Gross profit less selling expenses less administrative expenses less depreciation less interest on bank borrowings

Answer:

Gross profit = Revenue from sales of finished goods less cost of sales

Operating profit:

Gross profit less selling expenses less administrative expenses less depreciation less interest on bank borrowings



PIPE JOINTING

GENERAL NOTES

1. Utility

All pipe installation shall be in accordance with the applicable code requirements. All pipe shall be installed in accordance with the applicable code requirements. All pipe shall be installed in accordance with the applicable code requirements.

2. Material Quality

Materials shall be of the highest quality available and shall conform to the applicable code requirements. All materials shall be tested and certified by a qualified testing agency. All materials shall be tested and certified by a qualified testing agency.

3. Depth of Trench

Trench depth shall be in accordance with the applicable code requirements. All trench depth shall be in accordance with the applicable code requirements. All trench depth shall be in accordance with the applicable code requirements.

Special provisions shall be made for trench depth in areas where the ground is soft or where there are obstructions. All special provisions shall be made for trench depth in areas where the ground is soft or where there are obstructions.

Depth (ft)	Width (ft)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

4. Installation

Installation shall be in accordance with the applicable code requirements. All installation shall be in accordance with the applicable code requirements. All installation shall be in accordance with the applicable code requirements.

Installation shall be in accordance with the applicable code requirements. All installation shall be in accordance with the applicable code requirements. All installation shall be in accordance with the applicable code requirements.

5. Testing

Testing shall be in accordance with the applicable code requirements. All testing shall be in accordance with the applicable code requirements. All testing shall be in accordance with the applicable code requirements.

APPROXIMATE WEIGHTS		
PIPE SIZE (IN)	PIPE WEIGHT (LBS/FT)	JOINT WEIGHT (LBS)
1/2	1.5	1.0
3/4	2.0	1.5
1	2.5	2.0
1 1/4	3.5	3.0
1 1/2	4.5	4.0
2	6.0	5.0
2 1/2	8.0	7.0
3	10.0	9.0
3 1/2	12.0	11.0
4	14.0	13.0
4 1/2	16.0	15.0
5	18.0	17.0
6	22.0	21.0
8	30.0	28.0
10	38.0	36.0
12	46.0	44.0
14	54.0	52.0
16	62.0	60.0
18	70.0	68.0
20	78.0	76.0
24	94.0	92.0
30	118.0	116.0
36	142.0	140.0
42	166.0	164.0
48	190.0	188.0
54	214.0	212.0
60	238.0	236.0
72	286.0	284.0
84	334.0	332.0
96	382.0	380.0
108	430.0	428.0
120	478.0	476.0
144	574.0	572.0
168	670.0	668.0
192	766.0	764.0
216	862.0	860.0
240	958.0	956.0
270	1102.0	1100.0
300	1246.0	1244.0
360	1534.0	1532.0
420	1822.0	1820.0
480	2110.0	2108.0
540	2398.0	2396.0
600	2686.0	2684.0
720	3254.0	3252.0
840	3822.0	3820.0
960	4390.0	4388.0
1080	4958.0	4956.0
1200	5526.0	5524.0
1440	6594.0	6592.0
1680	7662.0	7660.0
1920	8730.0	8728.0
2160	9798.0	9796.0
2400	10866.0	10864.0
2700	11934.0	11932.0
3000	13002.0	12999.0
3600	15570.0	15567.0
4200	18138.0	18135.0
4800	20706.0	20703.0
5400	23274.0	23271.0
6000	25842.0	25839.0
7200	31410.0	31407.0
8400	36978.0	36975.0
9600	42546.0	42543.0
10800	48114.0	48111.0
12000	53682.0	53679.0
14400	64250.0	64247.0
16800	74818.0	74815.0
19200	85386.0	85383.0
21600	95954.0	95951.0
24000	106522.0	106519.0
27000	117090.0	117087.0
30000	127658.0	127655.0
36000	153326.0	153323.0
42000	178994.0	178991.0
48000	204662.0	204659.0
54000	230330.0	230327.0
60000	255998.0	255995.0
72000	311666.0	311663.0
84000	367334.0	367331.0
96000	423002.0	422999.0
108000	478670.0	478667.0
120000	534338.0	534335.0
144000	639906.0	639903.0
168000	745474.0	745471.0
192000	851042.0	851039.0
216000	956610.0	956607.0
240000	1062178.0	1062175.0
270000	1167746.0	1167743.0
300000	1273314.0	1273311.0
360000	1528882.0	1528879.0
420000	1784450.0	1784447.0
480000	2040018.0	2040015.0
540000	2295586.0	2295583.0
600000	2551154.0	2551151.0
720000	3106722.0	3106719.0
840000	3662290.0	3662287.0
960000	4217858.0	4217855.0
1080000	4773426.0	4773423.0
1200000	5328994.0	5328991.0
1440000	6384562.0	6384559.0
1680000	7440130.0	7440127.0
1920000	8495698.0	8495695.0
2160000	9551266.0	9551263.0
2400000	10606834.0	10606831.0
2700000	11662402.0	11662399.0
3000000	12717970.0	12717967.0
3600000	15273538.0	15273535.0
4200000	17829106.0	17829103.0
4800000	20384674.0	20384671.0
5400000	22940242.0	22940239.0
6000000	25495810.0	25495807.0
7200000	31051378.0	31051375.0
8400000	36606946.0	36606943.0
9600000	42162514.0	42162511.0
10800000	47718082.0	47718079.0
12000000	53273650.0	53273647.0
14400000	63829218.0	63829215.0
16800000	74384786.0	74384783.0
19200000	84940354.0	84940351.0
21600000	95495922.0	95495919.0
24000000	106051490.0	106051487.0
27000000	116607058.0	116607055.0
30000000	127162626.0	127162623.0
36000000	152718194.0	152718191.0
42000000	178273762.0	178273759.0
48000000	203829330.0	203829327.0
54000000	229384898.0	229384895.0
60000000	254940466.0	254940463.0
72000000	310496034.0	310496031.0
84000000	366051602.0	366051599.0
96000000	421607170.0	421607167.0
108000000	477162738.0	477162735.0
120000000	532718306.0	532718303.0
144000000	638273874.0	638273871.0
168000000	743829442.0	743829439.0
192000000	849385010.0	849385007.0
216000000	954940578.0	954940575.0
240000000	1060496146.0	1060496143.0
270000000	1166051714.0	1166051711.0
300000000	1271607282.0	1271607279.0
360000000	1527162850.0	1527162847.0
420000000	1782718418.0	1782718415.0
480000000	2038273986.0	2038273983.0
540000000	2293829554.0	2293829551.0
600000000	2549385122.0	2549385119.0
720000000	3104940690.0	3104940687.0
840000000	3660496258.0	3660496255.0
960000000	4216051826.0	4216051823.0
1080000000	4771607394.0	4771607391.0
1200000000	5327162962.0	5327162959.0
1440000000	6382718530.0	6382718527.0
1680000000	7438274098.0	7438274095.0
1920000000	8493829666.0	8493829663.0
2160000000	9549385234.0	9549385231.0
2400000000	10604940912.0	10604940909.0
2700000000	11660496480.0	11660496477.0
3000000000	12716052048.0	12716052045.0
3600000000	15271607616.0	15271607613.0
4200000000	17827163184.0	17827163181.0
4800000000	20382718752.0	20382718749.0
5400000000	22938274320.0	22938274317.0
6000000000	25493829888.0	25493829885.0
7200000000	31049385456.0	31049385453.0
8400000000	36604941024.0	36604941021.0
9600000000	42160496592.0	42160496589.0
10800000000	47716052160.0	47716052157.0
12000000000	53271607728.0	53271607725.0
14400000000	63827163296.0	63827163293.0
16800000000	74382718864.0	74382718861.0
19200000000	84938274432.0	84938274429.0
21600000000	95493830000.0	95493830000.0
24000000000	106049385568.0	106049385568.0
27000000000	116604941136.0	116604941136.0
30000000000	127160496704.0	127160496704.0
36000000000	152716052272.0	152716052272.0
42000000000	178271607840.0	178271607840.0
48000000000	203827163408.0	203827163408.0
54000000000	229382718976.0	229382718976.0
60000000000	254938274544.0	254938274544.0
72000000000	310493830112.0	310493830112.0
84000000000	366049385680.0	366049385680.0
96000000000	421604941248.0	421604941248.0
108000000000	477160496816.0	477160496816.0
120000000000	532716052384.0	532716052384.0
144000000000	638271607952.0	638271607952.0
168000000000	743827163520.0	743827163520.0
192000000000	849382719088.0	849382719088.0
216000000000	954938274656.0	954938274656.0
240000000000	1060493830224.0	1060493830224.0
270000000000	1166049385792.0	1166049385792.0
300000000000	1271604941360.0	1271604941360.0
360000000000	1527160496928.0	1527160496928.0
420000000000	1782716052496.0	1782716052496.0
480000000000	2038271608064.0	2038271608064.0
540000000000	2293827163632.0	2293827163632.0
600000000000	2549382719200.0	2549382719200.0
720000000000	3104938274768.0	3104938274768.0
840000000000	3660493830336.0	3660493830336.0
960000000000	4216049385904.0	4216049385904.0
1080000000000	4771604941472.0	4771604941472.0
1200000000000	5327160497040.0	5327160497040.0
1440000000000	6382716052608.0	6382716052608.0
1680000000000	7438271608176.0	7438271608176.0
1920000000000	8493827163744.0	8493827163744.0
2160000000000	9549382719312.0	9549382719312.0
2400000000000	10604938274880.0	10604938274880.0
2700000000000	11660493830448.0	11660493830448.0
3000000000000	12716049386016.0	12716049386016.0
3600000000000	15271604941584.0	15271604941584.0
4200000000000	17827160497152.0	17827160497152.0
4800000000000	20382716052720.0	20382716052720.0
5400000000000	22938271608288.0	22938271608288.0
6000000000000	25493827163856.0	25493827163856.0
7200000000000	31049382719424.0	31049382719424.0
8400000000000	36604938275000.0	36604938275000.0
9600000000000	42160493830576.0	42160493830576.0
10800000000000	47716049386144.0	47716049386144.0
12000000000000	53271604941712.0	53271604941712.0
14400000000000	63827160497280.0	63827160497280.0
16800000000000	74382716052848.0	74382716052848.0
19200000000000	84938271608416.0	84938271608416.0
21600000000000	95493827163984.0	95493827163984.0
24000000000000	106049382719552.0	106049382719552.0
27000000000000	116604938275120.0	116604938275120.0
30000000000000	127160493830688.0	127160493830688.0
36000000000000	152716049386256.0	152716049386256.0
42000000000000	178271604941824.0	178271604941824.0
48000000000000	203827160497392.0	203827160497392.0
54000000000000	229382716052960.0	229382716052960.0
600		

5.10 THE PROBABILITIES

Table 5.10.1: Joint and Marginal

- The joint probability of two events occurring together is given by $P(A \cap B)$ or $P(B \cap A)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.
- The joint probability of two events occurring together is given by $P(A \cap B)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.
- The joint probability of two events occurring together is given by $P(A \cap B)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.

Table 5.10.2: Joint and Marginal

- The joint probability of two events occurring together is given by $P(A \cap B)$ or $P(B \cap A)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.
- The joint probability of two events occurring together is given by $P(A \cap B)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.
- The joint probability of two events occurring together is given by $P(A \cap B)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.

Table 5.10.3: Joint and Marginal

- The joint probability of two events occurring together is given by $P(A \cap B)$ or $P(B \cap A)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.
- The joint probability of two events occurring together is given by $P(A \cap B)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.
- The joint probability of two events occurring together is given by $P(A \cap B)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.
- The joint probability of two events occurring together is given by $P(A \cap B)$.
- The marginal probability of event A is given by $P(A)$.
- The marginal probability of event B is given by $P(B)$.



UNDERSTANDING THE MAIN POINTS OF THE PASSAGE

1. The author's main purpose in writing this passage is to

- (A) describe the various ways in which the author's research team has been able to identify the genetic basis of the disease
 - (B) explain the importance of the research team's findings in the field of genetics
 - (C) discuss the challenges that the research team has faced in identifying the genetic basis of the disease
 - (D) present the author's own research findings on the genetic basis of the disease
 - (E) provide a general overview of the current state of research on the genetic basis of the disease
2. The author's description of the research team's findings is most likely intended to
- (A) highlight the team's success in identifying the genetic basis of the disease
 - (B) illustrate the complexity of the genetic basis of the disease
 - (C) emphasize the team's use of advanced genetic testing techniques
 - (D) demonstrate the team's commitment to understanding the genetic basis of the disease
 - (E) show the team's collaboration with other researchers in the field
3. The author's discussion of the challenges that the research team has faced is most likely intended to
- (A) highlight the team's perseverance in the face of adversity
 - (B) illustrate the difficulty of identifying the genetic basis of the disease
 - (C) emphasize the team's use of innovative research techniques
 - (D) demonstrate the team's commitment to understanding the genetic basis of the disease
 - (E) show the team's collaboration with other researchers in the field
4. The author's overall tone in this passage is most likely
- (A) objective and scientific
 - (B) enthusiastic and optimistic
 - (C) skeptical and cautious
 - (D) pessimistic and despairing
 - (E) neutral and unopinionated

5. The author's use of the word "pivotal" in the second paragraph is most likely intended to

- (A) emphasize the importance of the research team's findings
- (B) illustrate the complexity of the genetic basis of the disease
- (C) emphasize the team's use of advanced genetic testing techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

6. The author's use of the word "breakthrough" in the third paragraph is most likely intended to

- (A) highlight the team's success in identifying the genetic basis of the disease
- (B) illustrate the complexity of the genetic basis of the disease
- (C) emphasize the team's use of advanced genetic testing techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

7. The author's use of the word "challenge" in the fourth paragraph is most likely intended to

- (A) highlight the team's perseverance in the face of adversity
- (B) illustrate the difficulty of identifying the genetic basis of the disease
- (C) emphasize the team's use of innovative research techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

8. The author's use of the word "collaboration" in the fifth paragraph is most likely intended to

- (A) highlight the team's success in identifying the genetic basis of the disease
- (B) illustrate the complexity of the genetic basis of the disease
- (C) emphasize the team's use of advanced genetic testing techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

9. The author's use of the word "perseverance" in the sixth paragraph is most likely intended to

- (A) highlight the team's perseverance in the face of adversity
- (B) illustrate the difficulty of identifying the genetic basis of the disease
- (C) emphasize the team's use of innovative research techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

10. The author's use of the word "collaboration" in the seventh paragraph is most likely intended to

- (A) highlight the team's success in identifying the genetic basis of the disease
- (B) illustrate the complexity of the genetic basis of the disease
- (C) emphasize the team's use of advanced genetic testing techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

THE SOLUTION KEY

1. The author's main purpose in writing this passage is to

- (A) describe the various ways in which the author's research team has been able to identify the genetic basis of the disease
- (B) explain the importance of the research team's findings in the field of genetics
- (C) discuss the challenges that the research team has faced in identifying the genetic basis of the disease
- (D) present the author's own research findings on the genetic basis of the disease
- (E) provide a general overview of the current state of research on the genetic basis of the disease

2. The author's description of the research team's findings is most likely intended to

- (A) highlight the team's success in identifying the genetic basis of the disease
- (B) illustrate the complexity of the genetic basis of the disease
- (C) emphasize the team's use of advanced genetic testing techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

3. The author's discussion of the challenges that the research team has faced is most likely intended to

- (A) highlight the team's perseverance in the face of adversity
- (B) illustrate the difficulty of identifying the genetic basis of the disease
- (C) emphasize the team's use of innovative research techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

4. The author's overall tone in this passage is most likely

- (A) objective and scientific
- (B) enthusiastic and optimistic
- (C) skeptical and cautious
- (D) pessimistic and despairing
- (E) neutral and unopinionated

5. The author's use of the word "pivotal" in the second paragraph is most likely intended to

- (A) emphasize the importance of the research team's findings
- (B) illustrate the complexity of the genetic basis of the disease
- (C) emphasize the team's use of advanced genetic testing techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

6. The author's use of the word "breakthrough" in the third paragraph is most likely intended to

- (A) highlight the team's success in identifying the genetic basis of the disease
- (B) illustrate the complexity of the genetic basis of the disease
- (C) emphasize the team's use of advanced genetic testing techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field

7. The author's use of the word "challenge" in the fourth paragraph is most likely intended to

- (A) highlight the team's perseverance in the face of adversity
- (B) illustrate the difficulty of identifying the genetic basis of the disease
- (C) emphasize the team's use of innovative research techniques
- (D) demonstrate the team's commitment to understanding the genetic basis of the disease
- (E) show the team's collaboration with other researchers in the field