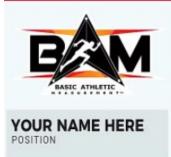


# 1) The Problem

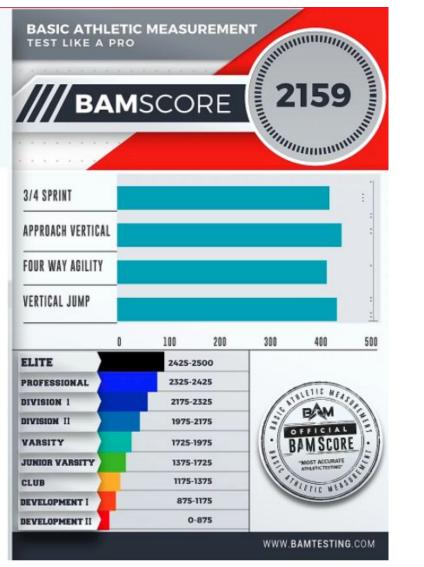
# BASKETBALL

High School > College

# 2) - BAM SCORE - Protocols (Athletic Tests)







01 3/4 Court Sprint

**Approach Vertical** 

03 4 Way Agility

04 Vertical Jump

**05** Reaction Shuttle



# 2) BAM Score - Anthros (Body Measurements)







We asked Brett to help us understand the nitty gritty details about the tests performed, and what numbers athletes should be shooting for to really impress.

#### "WELL, THERE ARE SIX TESTS THAT ARE DONE AT THE NBA COMBINE. I WILL EXPLAIN THE BASICS OF EACH OF THEM FOR YOU."

## 3/4 COURT

Recruits perform a 3/4 court sprint. which is from the baseline to the opposite free throw line, totaling 25 yards. It's kind of an odd test, in that because most metrics out there, internationally 20 meters is kind of the gold standard if you're doing comparables across disciplines. Football has a traditional 40 yard dash, and baseball has a 60 yard dash, but this is the one the NBA uses.

## LANE AGILITY

In this test, recruits move around the NBA lane. It's a rectangle. They sprint, then defensive slide to their right, then pack-pedal, and defensive slide to their left. Finally, they reverse the steps back around the lane back to the place they started.

# 3 REACTIVE SHUTTLE

With specialized instruments, we measure the reactive time of an athlete and their quickness from one side of the key to the other. The athlete doesn't have to touch the line with his hand, but they do have to touch the line with their foot. They'll start in the middle of the paint (center of the key), our clock/technology will hold the athlete for a random count of three to eight seconds. They don't know how long it's going be before it starts, and then a light on either the right or left side will go off, indicating which direction they need to move first. Once the light goes off, they'll quickly move the direction indicated by the light and touch the line. Then, they'll cross the key to touch the other side's line and finish back in the middle. This agility test is used by most professional sports to test agility.

We first do a typical counter in the NFL. There's no step or It's a counter movement - down

## **VERTICAL**

take off. The goal is to reach the max height possible. A machine

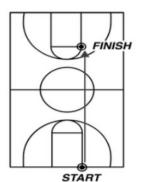
#### BENCH PRESS

upper body strength and muscle

Let's get down to brass tax. Rather than just giving you the tests, we wanted to provide the elite numbers that impress the coaches, universities and professional teams so you can see how you measure up.

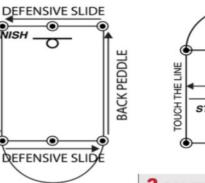
It took some serious prodding and coaxing, but we finally dug out the numbers of the top 4 percentile for each measurement out of him. Have a friend or family member help you to ensure you collect correct results.

#### 3/4 COURT SPRINT

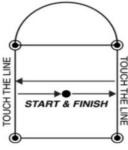


#### LANE AGILITY

START & FINISH



#### **REACTIVE SHUTTLE**



#### 3/4 COURT SPRINT

Pro time to shoot for is under 3.1 seconds. Ladies, you should shoot for under 3.4 seconds.

#### 4 VERTICAL WITH NO STEP

Pro height to shoot for is 37 inches for the guys, and 27 inches for ladies. Test Note: Using a pencil, smear the lead all over your middle finger on the hand you'll use and make a mark on the wall while reaching as high as you can while remaining flat footed. Once you've marked your reach, cover your finger again in pencil and jump as high as you can without taking a step. At the top of your jump, hit the wall to mark your height. Measure the distance between the two marks to calculate your vertical. \*Clean the wall with soap and water to remove the marks after you've completed the test. You're welcome, mom.

#### 2 LANE AGILITY

Pro time to shoot for is 10.4 seconds for men, and 10.9 for the ladies.

#### 5 VERTICAL MAX JUMP

Pro height to shoot for is 42 inches for the guys, and 34 inches for ladies. Test Note: Use the pencil trick to measure your height on this jump as well. Allow yourself a 7.5-foot approach to the wall for the jump.

#### 3 REACTIVE SHUTTLE

Pro time to shoot for is 2.3 - 2.7 seconds for the guys, and 2.75 - 3 seconds for the ladies. Test Note: Stand in the center of the free throw line to begin. Have a friend point either direction. Then run and touch the line with your foot. Go to the opposite line and finish back at the middle.

#### 6 BENCH PRESS

Pro reps to shoot for is 15 reps for men, and over 8 reps for ladies. Test Note: Warm up well before loading the weight. Have a spotter available and do as many reps as possible. The barbell must touch your chest, but do not bounce the weight off your chest. Remember, 185lbs for men, and 70% of bodyweight for women.

We're not saying that getting close to these numbers will score you a college scholarship or pro signing bonus, but it will help you know where you rank with to the pros.

In future issues, we will explain the ins and outs of how to improve your numbers while your working to build serious muscle for a balanced, functional body.

3) DATA
SAMPLE
DATA
986

### **Sample Data**

14-18 Year old High School Competitive Basketball Players that want to play college Basketball.



# 4) Insight





## Height

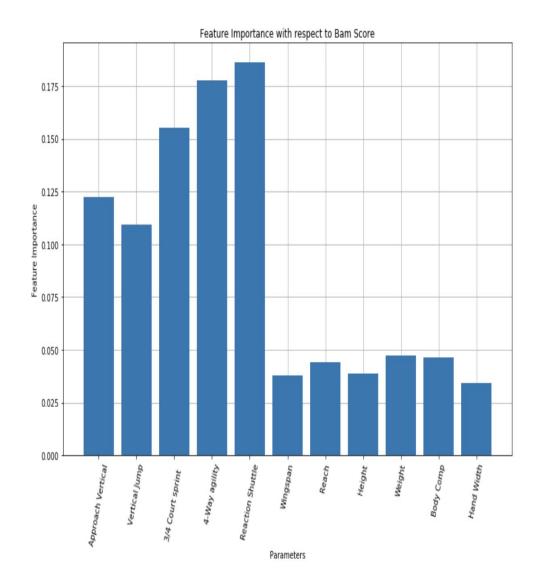
Tall or **Short**?

## **Speed**

Fast or Slow?

## Agility/Reaction

<u>Fast</u> or Slow Twitch Explosiveness or Stamina





# **COMBINE**

**CORNER** 

with BRETT BRUNGARDT

#### DREAMING OF BECOMING A COLLEGIATE, PROFESSIONAL OR OLYMPIC ATHLETE?

Each year, professional and collegiate turn to, to administer these tests. the world's leading authority on sports pull a large group of talented The events where these tests take combine training, Brett Brungardt. athletes together to test their place are called "combines". These Now let's learn what metrics will athletic abilities. These tests will combine tests are watched by scouts, help you see how you measure up help the organizations choose who university coaches and professional against the best athletes in the world. of the group will be recruited. Brett team owners from all over the world. is the man that these organizations We had the pleasure of interviewing

## **HOW DO YOU MEASURE UP AGAINST THE** PROS?

When asked how he became the a great tool, Brett reminds us that, last ten years of my career coaching employees." with the Dallas Mavericks and many other teams".

Although there are many tests performed at combines to determine an athlete's talent, Brett explains what he measures. "Generally, combines look at certain components that they could subjectively, and objectively measure. Combines have an objective measurement of physical components, or performance parameters. And they measure speed, agility, reaction, power ratios, in combination with a skill's assessment."

Gone are the days of stop watches at this level. Highly integrated technology is used to measure these athletes. If you don't have to access all the equipment to see how you measure up, don't fret. Keep reading because we have some simple things for you to use so you can test your own abilities, and the best numbers to compare against.

Even though the combine tests are

man for combine testing, Brett said, "It's not the end all, beat all. There's "I'd like to call myself an old coach. so much that these talented scouts I was a strength and conditioning and owners see with their eyes, that coach for 25 years. My educational sometimes an instrument will never background is a master's degree in measure. But they do rely highly Exercise Physiology. I coached 26 on our data." Brett tells the Iron different sports as far as physical Man readers to look at the combine development and kind of niched tests like a job interview. "The myself into basketball in about the teams come to evaluate potential









